

EVALUATION OF GEOTEXTILE REINFORCED EMBANKMENTS ON THE FARMER'S LOOP ROAD IN FAIRBANKS, ALASKA

A SPECIAL RESEARCH PROBLEM
PRESENTED TO
THE FACULTY OF THE SCHOOL OF CIVIL ENGINEERING

BY

GEORGE PAPAIOANOU

IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR THE DEGREE OF
MASTER OF SCIENCE

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GEORGIA INSTITUTE OF TECHNOLOGY
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
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JUNE, 1986

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CHAPTER I

INTRODUCTION

Geotextiles have increasingly become an integral part of many civil engineering applications in recent years. Slope reinforcement, retaining walls, road construction, and drainage nets are a few among the many applications of these materials (3,12,16,19). One area which has been receiving more and more attention is the reinforcement of road embankments overlying soft subgrade soils (3,12,16,18,19). Much of the literature relating to the effect of geotextiles upon the performance of these embankments is conceptual in nature and have not been fully supported by experimental and theoretical studies (16). These analyses have primarily focused upon an embankment overlying one particular soft/weak subgrade soil. The analysis of an embankment overlying more than one subgrade soil has generally not been required, but has direct application to certain areas of the country.

1.1 Statement of the Problem

The effect of frozen ground on engineering considerations must allow deviations to conventional design practices. Normally one of two broad principles can be followed based on whether or not the frozen foundation soils are thaw-stable or thaw-unstable (14). When foundation soils are thaw-stable, conventional design and construction methods may be used (14). Where foundations soils are thaw-unstable, conventional design and construction methods must be modified to

Previous studies by the Alaska Department of Highways of roadways constructed over permafrost have shown that progressively deeper thawing generally occurs beneath annually snow covered roadway side slopes (9). The insulating effect of snow-covered side slopes prevents the complete refreeze of the underlying soils during the winter which results in a progressive propagation of unfrozen ground or talik to occur annually (22). The degradation of this talik can be further accentuated by drifted or plowed snow accumulating on the road-way side slopes (14). The resulting decrease in shear strength and loss of bearing capacity results in consolidation and slope settlement in the thaw-unstable permafrost or talik (9,22). The thaw settlement which results due to these effects usually show up as lateral cracking on the wearing surface of the roadway (22). (See Figure 1.1)

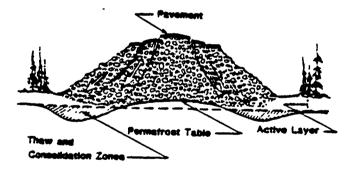


Figure 1.1 Typical roadway distress from thaw beneath slopes.

Methods such as the use of a peat underlay, placement of insulation layers within the embankment, toe berms, and air duct systems have been used to try and prevent and/or maintain the foundation soils in a frozen state (9,10,22). These methods have

aided in the short term maintenance of roadway integrity but have not solved the problems of long term thaw related settlements.

The use of geotextiles as a means of facilitating the construction of embankments on soft/weak foundations has gained in popularity (16). The mechanisms by which the fabric affects the behavior and performance of conventional aggregate-fabric-subgrade systems include the following:

- (1) Separation of the aggregate and subgrade soil
- (2) Provision of a filter medium to facilitate drainage
- (3) Confinement and reinforcement of the aggregate layer
- (4) Alteration of the failure mechanism in the subgrade soil (19) The application of these principles in permafrost regions take on a slightly altered meaning. Separation of the aggregate and subgrade soil would primarily be affected over the talik zones. Although frozen soil may exhibit deformation and separation upon loading, the area of greatest concern would be over the thaw-unstable talik zone. The fabric overlying the thaw zone would prevent the aggregate and thawed subgrade soil from intermixing, which would tend to reduce the effective depth and load distributing capability of the aggregate fill (19).

The presence of a geotextile fabric may induce the formation of a natural filter in the subgrade soil. This process is initiated with the migration of some soil particles through the fabric as a result of fluid flow. Creation of the filter depends upon the soil grain size distribution, the porosity, opening size and opening size distribution of the geotextile, and the hydraulic gradient of the flow (19). The hydraulic gradient may be influenced by the in-situ stress state of the

fabric, where tensile and compressive stresses may alter the pore size distribution in a non-woven fabric (19). The filter induced by the fabric typically maintains the separation of the aggregate and subgrade soil while permitting the free flow of water (19). When the frozen soil under the toe of the embankment thaws, the resulting water is not able to drain off properly. The surrounding permafrost does not lend itself as an adequate drainage boundary so the water will tend to flow through the fabric as the outer edge of the embankment consolidates due to the loss of bearing capacity in the soil. This will result in differential settlement in the embankment causing longitudinal cracks in the pavement. This has been one of the primary failure mechanisms of roadway embankments constructed in these areas.

The primary function of the geotextile is provide tension reinforcement, transmitted from the adjacent soil by soil-geotextile shear stress. The reinforcement tensile forces resulting from shear load transfer transmit soil loads from one location (unstable zone) in a soil mass to another location (stable zone) (3). Granular materials have zero shear strength when no confinement is provided. When confined, granular materials furnish excellent load bearing capacity. The load bearing capacity of the aggregate in an embankment is limited by the shear stress which develop at the aggregate-subgrade interface (19). A layer of fabric at this location can restrain interfacial aggregate movement thereby increasing the interfacial shear strength and corresponding load bearing capacity of the aggregate layers (19). The load bearing capacity of the aggregate is reduced differentially when talik zones develop at the toe of roadway embankments. Additional

shear stress induced by the geotextile between the aggregate and talik zone provides confinement for the aggregate, thereby increasing the load bearing capacity.

1.2 Objective

The primary objective of this research paper is to estimate the required geotextile properties for reinforcement of the Farmers Loop Road in Fairbanks, Alaska so that surface deformations can be kept within tolerable levels. Numerical analyses are used to evaluate the effect of tensile strength, elastic modulae, and location of the geotextile on the surface deformations of the road.

1.3 Purpose

The purpose of this research is to provide a technically sound and economically feasible alternative solution to the long term problems associated with thaw-unstable foundation soils underlying roadway pavements in permafrost regions such as Fairbanks, Alaska. The functional life of a roadway constructed on permafrost is decreased by the varying properties inherently associated with frozen soil.

Substantial changes in bearing capacity, shear strength, and volume contribute to decreasing the functional use of the pavement. Methods, previously described, have been attempted to increase the long term functional life of a roadway but have been successful only in the short run. The main purpose of this project is to evaluate the properties of a geotextile which may be used to reduce the magnitude of embankment deformations given the progressive degradation of the permafrost beneath the embankment slope areas.

1.4 Research Approach

The success of any method of analysis largely depends upon how well the actual conditions may be modelled. For embankments constructed over permafrost four basic failure modes may be defined:

- (1) Slope failure within the embankment.
- (2) Rotational failure involving the embankment and the foundation soil.
- (3) Bearing capacity failure of the thaw-unstable talik.
- (4) Differential settlement of embankment as a result of the consolidation of talik zone under the side slopes.

Two computer programs are used to develop the required geotextile properties to evaluate stress distributions for each of these failure modes. STABGM: A computer program for slope stability analysis with circular surfaces and geogtextile reinforcement (7) is used to evaluate the stress distributions for the first two modes of failure. Finite Element Analysis for Dams (FEADAM) and Soil Structure Interaction Program (SSTIPN) are used to analyze stress distributions and evaluate geotextile properties for the third and fourth modes of failure.

Much of the numerical analyses work to date has been applied to embankments overlying soft soils of one type. This literature will be used to develop a logical approach to the unique problems associated with roadway embankments constructed on permafrost.

CHAPTER II

SLOPE STABILITY ANALYSIS

The computer program for slope stability analysis with circular slip surfaces and geotextile reinforcement (STABGM) may be used to analyze internal and external stability of roadway embankments constructed on permafrost. Internal stability refers to the stability of the embankment slope alone. Thus, the circular slip analyses to be employed are restricted to failure through the toe of the embankment. External stability refers to the stability of the embankment and foundation soil combined. For embankments constructed or soft soil, this is the most likely mechanism of failure (3).

2.1 STABGM

The computer program STABGM is a version of the computer program STABR modified in December 1984, by J. M. Duncan and B. K. Low. In addition to the slope stability analysis capabilities provided by STABR, STABGM can be used to analyze slopes containing up to twenty layers of reinforcement, with the forces in the reinforcement layers varying along their lengths.

The program calculates the factors of safety for specified circles, or searches for the circular slip surface having the minimum

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factor of safety, using the Bishop's Modified Method or Ordinary Method of slices. Briefly, stability analysis using the ordinary method of slices requires trial of a large number of assumed failure surfaces. The failure zone is divided into a series of vertical slices. It is assumed that each slice acts independently of its neighbor. There is no shear developed between them, and the normal pessure on each side of a slice produced by the adjoining slices are equal (2). A series of calculations are then evaluated to determine the resisting moment, related to soil strength, and the overturning moment, related to the weight of the soil mass. A factor of safety is then evaluated for each trial failure surface. That which has the smallest factor of safety is the most critical surface, i.e., the one on which failure is most likely to occur (20). The Bishop's Modified Method is a more refined solution. The effect of forces on the sides of each slice are taken into account. Through a series of trial and error calculations, a factor of safety is found. The ordinary method of slices yields results which are too conservative (4). The Bishop's Modified Method is more representative of actual conditions and is used for the slope stability analysis on the Farmers Loop Road. The program may be used for either total or effective stress analyses, or a combination of both, and with or without seismic forces.

2.1.1 Program Operation

The program consists of a main program (STABGM) and three subroutines (BISHOP, ROOT, and SOLU). The geometry of a slope is described in an X-Y coordinate system. The X coordinate (horizontal) increases from the top to the toe of the slope and the Y coordinate

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(vertical) increases downward, as shown in Figure 2.1. The program is capable of handling irregular slope profiles, tension cracks, soil layers with different properties and nonuniform thickness, complicated pore pressure patterns, and irregular variations of undrained strength with depth. ...(7)

Up to 20 vertical sections may be used to define the geometry of the slope. The first and the last vertical sections, as well as the last soil layer boundary, should be well beyond the extent of any possible slip circle. The strength of the soil in a layer may be specified either by the cohesion intercept (c) and the friction angle (b) which are constant throughout the layer, or by a curve of undrained shear strength versus depth. The total number of points describing the variation of undrained strength with depth may not exceed 20. ...(7)

If a search for the critical circle is desired, the program searches for the circle having the minimum factor of safety by either the Ordinary Method of Slices or Bishop's Modified Method. Either a horizontal line to which all circles are tangent or a specific point through which all circles pass must be defined. In addition, coordinates of the center of the first circle to be analyzed, and the final grid spacing desired in the search must be specified. The search starts with calculation of factors of safety for the specified circle center and for centers spaced symmetrically around the specified center, as shown in Figure 2.2. The centers are generated in the order shown, by rotating around the specified center with a spacing whose length is equal to twice the final grid spacing.(7)

If a factor of safety less than that at the center of rotation

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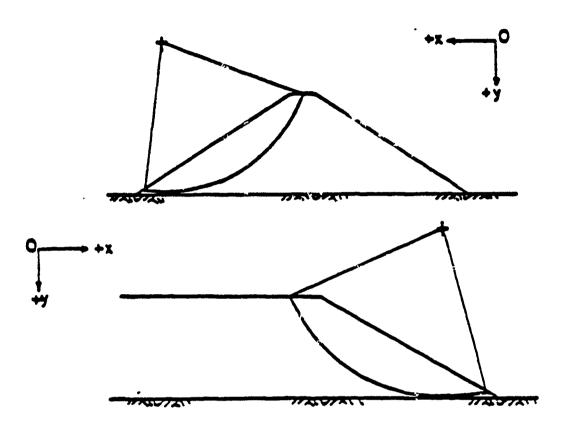


FIG. 2.1 COORDINATE SYSTEM USED IN STABGM

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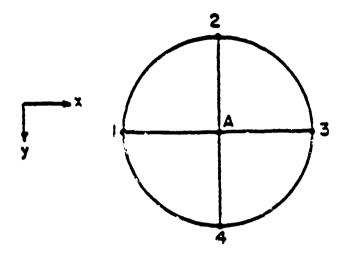


FIG. 2.2 FIRST CLOCKWISE ROTATION AROUND THE GIVEN CENTER A.
THE ROTATION STARTS AT POINT 1, WITH RADIUS OF
ROTATION TWICE THE FINAL GRID.

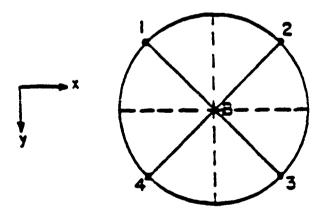


FIG. 2.3 THE 45-DEGREE CLOCKWISE ROTATION AROUND THE CENTER B.
THE ROTATION STARTS AT POINT 1, WITH RADIUS OF
ROTATION 1.414 TIMES THE FINAL GRID.

is found at any point, this point becomes the new center of rotation. If the difference between the factors of safety at the old and the new centers of rotation is equal to or less than 5% of the factor of safety at the new center of rotation, the spacing is reduced to the final grid spacing. If a full rotation is completed and no factor of safety smaller than that at the center of rotation has been found, a new clockwise rotation round the same center is initiated with the spacing being reduced to the final grid spacing. ...(7)

If a full rotation with the final grid spacing is completed and no factor of safety smaller than that at the center of rotation has been found, then another clockwise rotation around the same center is initiated. This rotation, however, starts at an angle of 45° with the horizontal. The increments of rotation are still 90°, thus filling in the corners of the final grid, as shown in Figure 2.3. If no smaller factor of safety is found in this rotation, the factor of safety at the center of rotation is assumed to be the minimum factor of safety, and the search is terminated.(7)

If the minimum factor of safety has not been found after 51 circles have been analyzed, the search is discontinued without printing out a minimum factor of safety. The program then proceeds to search for the minimum factor of safety for the next depth limiting tangent. When this occurs, the user should rerun the problem, specifying a new starting center for the search. It is frequently desirable to specify a rather large grid spacing for the initial search, so that the center of the critical circle can be located, at least approximately, by analyzing relatively few circles. Then a finer grid spacing may be

specified for a final search to locate the center of the critical circle with a higher degree of accuracy.(7)

With STABGM, the improvement in the factor of safety is considered to be due to the increased resisting moment provided by the reinforcement:

$$\Delta M_{R} = \sum_{i=1}^{N} \left[F_{Ri} (Y_{Ri} - Y_{c}) \right]$$
 (1)

in which ΔM_R = resisting moment due to reinforcement

 F_{Ri} = force in i th layer of reinforcement where it is intersected by the slip circle being analyzed

 $Y_{Ri} = Y - coordinate$ of reinforcement (down is positive)

 $Y_c = Y - coordinate of circle center$

N = number of layers of reinforcement

The factor of safety of the reinforced slope is calculated as follows:

$$F_{W} = F_{WO} + \frac{\Delta M_{R}}{M_{O}} \tag{2}$$

in which F_{w} = factor of safety for a given circle with reinforcement

 F_{WO} = factor of safety for the same circle without reinforcement, as calculated by the Ordinary Method of slices or Bishop's Modified Method

 $\Delta M_{\rm R}$ = resisting moment due to reinforcement, calculated using Equation ¹

M_O = overturning moment for the circle

STABGM will search automatically for the circle with the minimum value of $F_{\boldsymbol{w}}$ to locate the circle with the minimum factor of safety.

Up to twenty horizontal layers of reinforcement can be specified, with as many as nine pairs of values of X-coordinate and force for each reinforcement layer to describe the variation of force along its length.

2.2 Reinforcement of Embankments on Weak Foundations

embankments and weak foundations to prevent failure of the foundation soil (3). Two performance criteria usually considered for normal embankments constructed on weak soil are adequate stability and acceptable total and differential settlement (3). The failure mechanisms associated with embankments constructed on permafrost are similar in principle but not in sequence. Initially, embankments constructed on permafrost are very stable. Permafrost is relatively strong as a foundation soil, but once thawed, the soil becomes very weak relative to its former strength. Additionally, thawing usually occurs under the side slopes of the embankment and not under the centerline which introduces the problem of renuniform foundation soil properties and differential settlement after construction.

Internal stability can be impaired if the embankment itself lacks internal stability or if embankment failure results from

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excessive deformation or failure of the foundation soil under the embankment load (3). Height of the embankment and the steepness of the side slopes govern the internal stability of an embankment. Both parameters also influence the magnitude and distribution of stresses on the foundation soil and, therefore, influence the stability of the foundation soil (3). This interrelation is directly applicable to embankments constructed over permafrost which has thawed. Upon thawing, the talik zone under the side slopes of the embankment loses bearing capacity resulting in settlement of the overlying side slopes. Consequently, the fill material may weaken and loosen thereby impairing embankment internal stability (3). Embankment internal stability can be improved by layers of reinforcement placed within the embankment (3,11,12,16,17,18,19).

The placement of a layer of reinforcement at the embankment/
foundation soil interface affects embankment internal stability two
ways. Upon thawing of the frozen soil under the side slopes, the
embankment soil may slide along the geotextile interface. This
mechanism is more likely to occur if the interface friction angle and
adhesion are relatively low between the geotextile and the embankment
soil (3). If lateral sliding does not occur, the reinforcement layer
will aid in reducing lateral deformations of the embankment, thereby
minimizing the risk of creating voids in the fill from cracking (3).
In conventional design methodology, prevention of embankment failure
due to lateral sliding is the first step (3,12).

The next step is to address foundation soil stability. External failure, or failure of the foundation soil, is said to occur as a

result of one of two mechanisms: slip surface failure or bearing capacity failure (3). Slip surface failure occurs when a portion of the embankment/foundation slides relative to the other stable part. If reinforced, the slip circle would likely go through the embankment, the reinforcement, and the foundation soil. A bearing capacity failure would result when the embankment punches through the foundation soil. This would occur in conventional cases when the reinforcement in the embankment is strong enough to hold the embankment together to prevent a slip surface from developing (3). In permafrost regions, the dynamic effect of frozen soil thawing under an existing embankment does not lend itself to such a structured approach. Failure of an embankment in these regions is likely to encompass a combination of all three failure mechanisms: lateral sliding, slip surface failure, and bearing capacity failure.

2.2 <u>Initial Analysis</u>

Verification of embankment stability as stated earlier must consider three failure mechanisms. For embankments constructed on permafrost, these failure mechanisms are interrelated. Once the frozen soil thaws under the side slopes of the embankment, bearing capacity is lost within the thaw-unstable talik. As the talik consolidates, failure planes may develop within the embankment. If a geotextile is present at the embankment/subgrade interface, the risk of lateral sliding on the outer part of the embankment increases and may add to the development of failure planes.

The evaluation of internal and external stability of the

embankment was initially evaluated using STABGM. The analyses of toe and deep stability were evaluated based upon none, one, two, three, and four layers of reinforcement placed within the embankment. Analysis of the embankment with no layers of geotextile reinforcement was also conducted to determine at what depth the most critical slip circle surface would be located (i.e., the depth of slip circle at which the lowest factor of safety was evaluated).

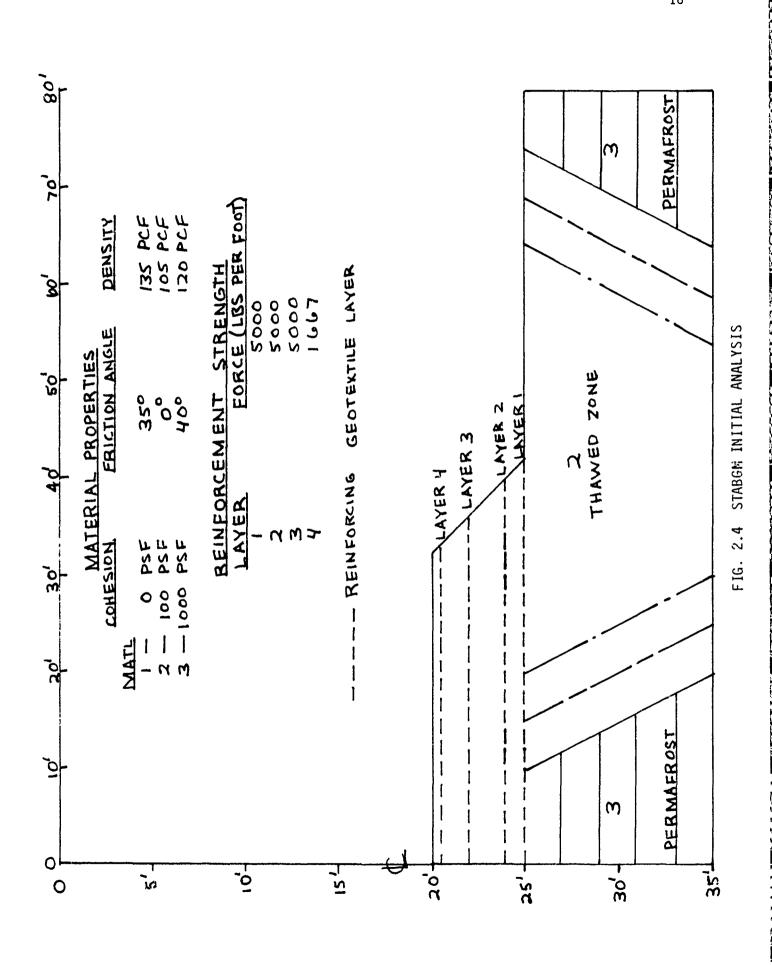
In addition to critical depths of slip circles, three distinct dimensions of soft thaw zone subgrade soil were also analyzed. The geometry of the soft thawed zone which created the most critical conditions (i.e., lowest factor of safety) in conjunction with the critical slip circle depth was then used throughout the remainder of the analysis. Once this critical depth and critical dimension of thaw zone was established, further analysis of stability with geotextile reinforcement was conducted.

Ideally, reinforcement layers should be placed in the direction of maximum tensile strain (3). For steep slopes, principal compressive strains are nearly vertical and principal tensile strains are nearly horizontal (3). Therefore, reinforcement layers placed horizontally provide a high degree of efficiency. Also, reinforcement is generally placed in horizontal layers to accommodate actual construction sequences.

2.3.1 Assumptions

Figure 2.4 depicts the conditions of the initial analysis. The following assumptions represent the initial analysis:

1. Height of embankment = 5 feet.



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- 2. Slip circles analyzed were located tangentially at depths of 3, 5, and 10 feet below the bottom of the embankment.
- 3. Thaw zones (soft soil) were located 10, 15, and 20 feet from centerline, symmetric about the toe of the embankment.
- 4. No seismic activity was taken into account.
- 5. No pore pressures were taken into account (Total stress analysis).
- 6. Reinforced embankment stability analyses were conducted with geotextile layers located at 5, 4, 2, and 0.5 feet beneath the top of the embankment.
- 7. Material properties were modelled as crushed stone in the embankment, soft clay in the thaw zone, and stiff clay in the permafrost zone.

The geometry of the talik zones used in the analyses is consistent with measurements obtained by the Alaska Department of Transportation and Public Facilities (9,15,22). The material properties were modelled according to relative strength to each other. They do not represent actual material strengths. The embankment, crushed rock, was modelled as a complete unit and not separate layers of fill. The thaw zone was modelled as material with very little strength relative to the embankment and permafrost. Material properties selected are shown in Figure 2.4.

Embankment stability was initially analyzed with no layers of geotextile reinforcement. This was to evaluate at which depth and which dimensions of slip circles and thaw zones, respectively, provided critical conditions.

Analysis was then conducted with layers of geotextile reinforcement within the embankment. Embankment stability was then analyzed with one layer of reinforcement placed at the embankment/subgrade interphase. Additional analyses with two, three, and four layers of geotextile placed at 4, 2, and 0.5 feet beneath the embankment, respectively, were conducted to determine the impact on embankment stability. The geotextile reinforcement strength for the analyses with one, two, and three layers was 5,000 lbs per foot of width for each layer. The strength of the upper geotextile layer in the analysis with four layers of reinforcement was estimated to be 1667 lbs per foot of width. Mobilization of the full force in the geotextile layer close to the surface is not practical due to the minimal overburden pressure of the soil. Also, mobilization of the full force in all four layers was modelled to occur three feet from the end of each layer (i.e., zero force applied at endpoints and 5,000 lbs force applied at three feet in from each end for layer one).

2.3.2 Results of Initial Analysis

The analysis with no layers of reinforcement provided two important pieces of information which impacted the remaining analyses. First, the depth at which the critical slip circle occurred was 10 feet below the embankment/subgrade interphase (i.e., lowest factor of safety) (See Appendix A). Second, the dimensions of soft soil (thaw zone) at which critical slip circle conditions occurred were at both 10 and 15 feet from the centerline, symmetric about the toe (i.e., factors of safety were equal for both) (See Appendix A).

The analysis with three and four layers of reinforcement revealed that no appreciable gain in safety occurred as a result of the fourth layer.

2.3.3 Revisions

The following revisions were made to the initial conditions based upon the results obtained (See Figure 2.5):

- 1. Embankment depth was increased to seven feet.
- Analysis was conducted with the thaw zone located 10 feet from centerline, symmetric about the toe of the embankment.
- Analyses were conducted with none, one, two, and three layers of geotextile.
- 4. Stability analyses were conducted with slip circles located at a depth of 10 feet below the embankment (external stability) and through the toe of the embankment (internal stability).

The embankment depth was increased to seven feet to allow for a more conservative analysis. The greater the embankment height, the lower the factor of safety. Analyses of external stability were conducted to establish the required geotextile reinforcement to achieve a minimum factor of safety of 1.0. Analyses of internal stability were only conducted to compare factors of safety with external stability analyses.

2.4 Results of STABGM Analyses

The results of the revised analyses are summarized in Table 2.1. Geotextile reinforcement strengths of 5,000, 7,000, 9,000, and 8,000

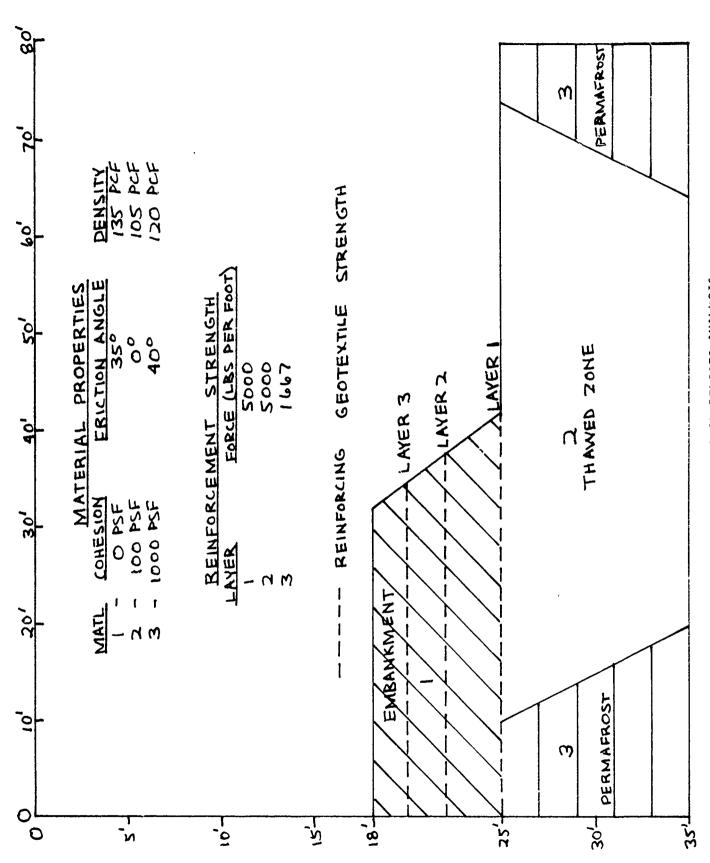


FIG. 2.5 STABGN REVISED AMALYSIS

Table 2.1. Summary of Results

TANGENT SLIP CIRCLE:				
Number of Reinforcing Layers	Depth	Circle Below nkment	Factor of Safety	Force of Layer
None	5	ft ft ft	0.719 0.636 0.593 (cr.	- itical)-
One (7' below surface)	10	ft	1.043	8000 lbs
Two (4' and 7' below surface)		ft ft	1.035 1.035	5000 lbs (each)
Three (2', 4' and 7' below surface		ft	1.062	1666 lbs (Layer 3) 5000 lbs (Layer 1

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Reinforcing Layers	Factor of Safety	Force of Layer
None	0.373	-
One (7' below surface)	0.598	5000 lbs
Two (4' and 7' below surface)	0.726	5000 (each)
Three (2', 4', and 7' below surface	0.748 ce)	1666 lbs (Layer 3) 5000 lbs (Layer 1 and 2)

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lbs per foot of width were analyzed to produce the strength required for a minimum factor of safety of 1.0 (See Appendix B). Analyses with two and three layers of reinforcement revealed that 5,000 lbs force was required to achieve a factor of safety of 1.0 (See Appendix B). It should be noted that with three layers of reinforcement, the top layer was modelled as mobilizing one third the strength due to the minimal overburden pressure. Also, there was minimal gain in factor of safety from the addition of the third layer. The analyses of internal stability revealed the layers of reinforcement strength required for a factor of safety of 1.0 in the external analyses were not strong enough to achieve the required minimum stability requirements (See Appendix B). These results indicate internal stability is more critical, however, the risk of failure for an embankment overlying soft material is more likely to occur in the soft subgrade soil (3).

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CHAPTER III

NUMERICAL ANALYSES

Two computer programs were utilized to analyze the perplexing roadway conditions of the Farmer's Loop Road in Fairbanks, Alaska.

FEADAM84: A Computer Program for Finite Element Analysis of Dams was initially used to model existing roadway embankment conditions.

SSTIPN: Soil Structure Interactive Program was then used to model conditions for a reinforced roadway embankment constructed on permafrost.

3.1 FEADAM84 Analysis

FEADAM84 is an incremental finite element program for two-dimensional, plane strain analysis of earth and rockfill dams and slopes. It calculates the stresses, strains, and displacements due to incremental embankment construction and/or load application. The non-linear and stress history dependent stress-strain and volumetric strain properties of soils are approximated using a hyperbolic model modified by Seed and Duncan (1984).

This program is a modified version of the program FEADAM developed by Duncan, Wong, and Ozawa (1980). The original incremental analysis procedure was coded in the program LSBILD by Kulhawy, Duncan, and Seed (1969). The subsequent program ISBILD, by Ozawa and Duncan (1973) incorporated (a) isoparametric elements with incompatible displacement modes developed by Wilson et al. (1971), (b) a more accurate

procedure for assigning initial stresses to elements, and (c) more efficient computational techniques, including a new equation solver, developed by Wilson (1971). The program FEADAM, by Duncan, Wong, and Ozawa (1980) incorporated (a) a new model for stress-dependent bulk moduli, and (b) new criteria for differentiation between primary loading behavior and stiffer, elastic unloading/reloading behavior.

The unloading-reloading model was subsequently deleted by Wong and Seed (1982), who also modified the bulk modulus model. ...(8)

In its present form, FEADAM84 incorporates the following modifications to the earlier program FEADAM:

- (a) A modified version of the model for unloading/reloading behavior has been reinstated on an optional basis,
- (b) New criteria are employed for determination of whether a given soil element is in a state corresponding to primary loading or unloading-reloading behavior,
- (c) A modified lower bound constraint is incorporated in the stress-dependent bulk modulus model.
- (d) The new program has the capability to model weightless, linear elastic soil elements with zero initial stresses.

3.1.1 Non-linear Incremental Finite Element Methodology

A successive-increment procedure is used for approximating nonlinear stress and stress history dependent behavior of soil, in which progressive loading is divided into a number of small increments, and the soil behavior is assumed to be linear within each increment. The modulus values used to model each soil element are re-evaluated each increment in accordance with (a) the stresses in the element, and (b)

the previous stress history of the element.

The incremental stress-strain relationship for an isotropic material under plane strain conditions may be expressed as follows:

$$\Delta \sigma_{x}$$

$$\Delta \sigma_{y} = \frac{3B}{9B - E}$$

$$(3B + E) \quad (3B - E) \quad 0 \quad \Delta \varepsilon_{x}$$

$$(3B - E) \quad (3B + E) \quad 0 \quad \Delta \varepsilon_{y}$$

$$0 \quad 0 \quad E \quad \Delta \gamma_{xy}$$

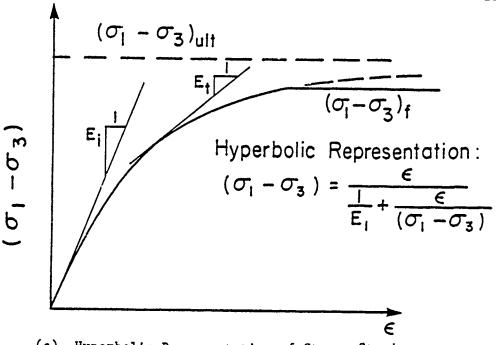
$$(3)$$

where $\Delta\sigma_X$ and $\Delta\sigma_y$ are the incremental stresses in the x and y directions respectively and $\Delta\tau_{XY}$ is the incremental shear stress. $\Delta\epsilon_X$ and $\Delta\epsilon_Y$ are the incremental strains in the x and y directions respectively and $\Delta\Upsilon_{XY}$ is the incremental shear strain. E and B are Young's modulus and bulk modulus respectively. (1)

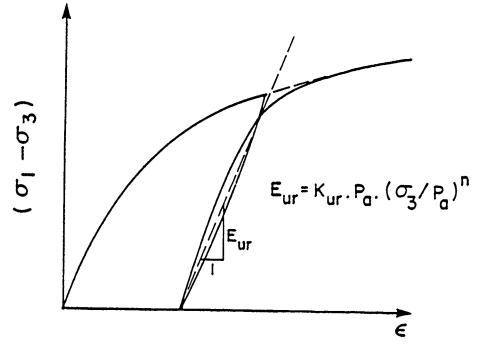
The non-linear, stress-dependent and stress-history-dependent soil behavior model is a modified version of the hyperbolic stress-strain, strength, and volumetric strain model proposed by Duncan et al. (1980). The original (1980) model has been modified in order to : a) provide improved modelling of soil behavior during unloading/reloading, b) eliminate a source of potential computational instability for some types of incremental loading paths, and c) provide improved modelling of bulk moduli at low stress levels and high confining stress.(8)

The original (1980) model assumes that stress-strain curves for soils at a given confining stress (σ_3) can be approximated as hyperbolas shown in Figure 3.1(a). The hyperbola in this figure can be represented by an equation of the form

$$(\sigma_1 - \sigma_3) = \frac{\varepsilon}{\frac{1}{E_i} + \frac{\varepsilon}{(\sigma_1 - \sigma_3)_{ult}}}$$
 (4)

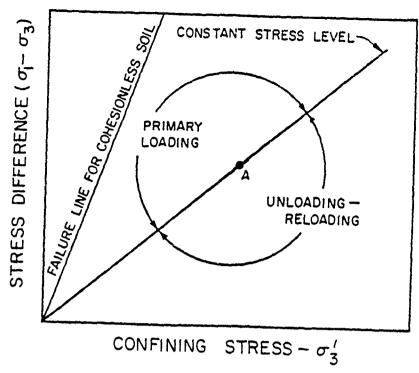


(a) Hyperbolic Representation of Stress-Strain Curve for Primary Loading.



(b) Linear Unloading-Reloading Stress-Strain Relationship

FIG. 3.1 HYPERBOLIC MODEL FOR STRESS-STRAIN BEHAVIOR



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a) Stress Level Criteria

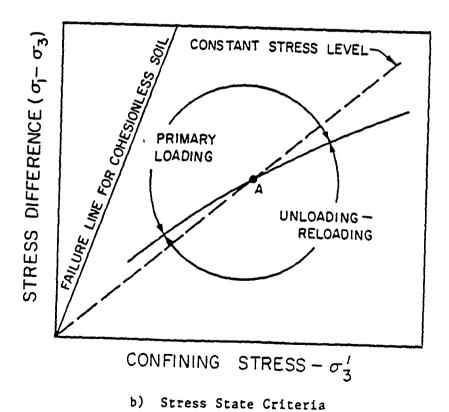


FIG. 3.2 COMPARISON BETWEEN STRESS LEVEL AND STRESS STATE CRITERIA FOR ASSIGNMENT OF UNLOADING-RELOADING MODULI

where E_i is the initial tangent modulus, and $(\sigma_1 - \sigma_3)$ is the asymptotic value of deviatoric stress. In order that the hyperbolic curve should fit the actual stress-strain curve of a given soil as closely as possible $(\sigma_1 - \sigma_3)_{ult}$ is always greater than the compressive strength of the soil $(\sigma_1 - \sigma_3)_f$. The two values are related by a constant failure ration (R_f) as

$$(\sigma_1 - \sigma_3)_f = R_f(\sigma_1 - \sigma_3)_{ijlt}$$
 (5)

and R_f is typically between 0.6 to 0.9 for most soils. When the deviatoric stress exceeds $(\sigma_1 - \sigma_3)_f$, a failure condition is assumed as shown in Figure 3.1(a). The deviatoric stress at failure is determined by the familiar Mohr-Coulomb failure criteria as

$$(\sigma_1 - \sigma_3)_f = \frac{2c \cdot \cos\phi + 2\sigma_3 \cdot \sin\phi}{1 - \sin\phi}$$
 (6)

where c and φ are the cohesion intercept and friction angle of the soil. The model allows variation of φ as a function of σ_3 as

$$\phi = \phi_0 - \Delta\phi \cdot \log_{10}(\frac{\sigma_3}{P_3}) \tag{7}$$

where ϕ_0 = the soil friction angle at confining stress of σ_3 = P_a ,

 $\Delta \phi$ = the reduction in ϕ for each 10-fold increase in σ_3 , and

 P_a = atmospheric pressure, introduced in order to make the model independent of the system of units chosen.

The instantaneous slope of the hyperbolic stress-strain curve shown in Figure 3.1(a) is the tangent modulus $E_{\rm t}$, which is a function of confining stress (03) and stress level (SL), and which can be expressed as

$$E_t = [1 - (R_f \cdot SL)]^2 \cdot K \cdot P_a \cdot (\sigma_3/P_a)^n$$
 (8)

where K,n = Model parameters (constants) relating to the initial modulus (E_i , see Figure 3.1(a)) to the confining stress σ_3 as

$$E_i = K \cdot P_a \cdot (\sigma_3/P_a)^n \tag{9}$$

and SL = Stress Level, defined as the ratio

$$SL = (\sigma_1 - \sigma_3)/(\sigma_1 - \sigma_3)_f$$
 (10)

The tangent modulus modelled according to Equation 8 increases with increasing confining stress (σ_3) and decreases with increasing stress level (SL).(8)

When the current stress level was less than the previous maximum stress level ($SL_{max\ past}$), the unmodified (1980) model assumed the soil to be no longer in a state of primary loading, but rather in an unloading-reloading state. Unloading and reloading were modelled as linear and elastic as shown in Figure 3.1(b). The unloading-reloading modulus were modelled as a function only of σ_3 according to the equation

$$E_{ur} = K_{ur} \cdot P_a(\sigma_3/P_a)^n \tag{11}$$

where K_{ur} is typically 1.2 to 3 times greater than K (the modulus parameter determining E_i).(8)

The bulk modulus of the soil is assumed to be independent of stress level, and can be expressed as a function only of σ_3 as

$$B = K_B \cdot P_a \cdot (\sigma_3/P_a)^m \tag{12}$$

where K_B and m are dimensionless parameters (constants). Modelling the bulk modulus (B) as being independent of stress level results in modelling an increase in Poisson's ratio (ν) with increasing stress level because the soil modulus (E_t) decreases with increasing stress level, and Poisson's ratio can be expressed as

$$v = 1/2 - E_t/6B$$
 (13)

The bulk modulus in the (1980) model was at all times constrained such that $E_t/3 < B > 17$ E_t , which in effect constrained Poisson's ratio such that 0.0 < v > 0.49 (see Equation 13).(8)

Together, the soil modulus (E_t or E_{ur}) and the bulk modulus (B) define the stress-strain and volumetric strain behavior of a given material. This relatively simple, straightforward hyperbolic model may be formulated and applied in terms of either total stress (σ) or effective stress (σ ') by using input parameters appropriate either for total or effective stress soil behavior.

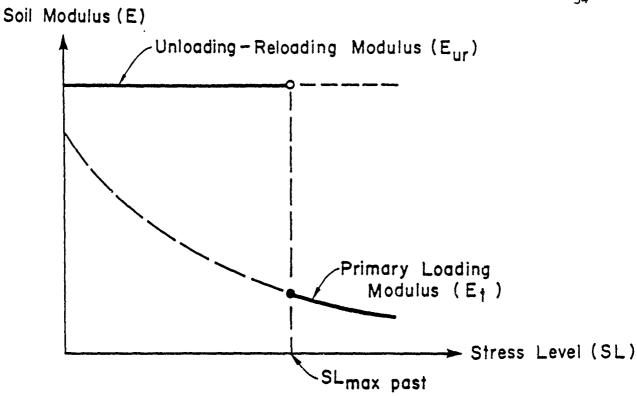
The unmodified (1980) model suffered from two problems concerning unloading-reloading.

The first of the two problems with the previous model for unloading-reloading moduli is that the simple stress level criteria used for differentiating between primary loading and unloading-reloading behavior does not appear adequate for many purposes. The line of constant stress level in Figure 3.2(a) represents the division, according to the earlier (1980) model, between primary loading and unloading-reloading stress paths for an element of soil currently existing at a stress condition represented by point A, where the stress level at A equals the maximum stress level achieved so far (SLmax past). This division between primary loading and unloading-reloading is defined by assuming unloading-reloading moduli for all conditions where $SL < L_{max past}$. Subsequent investigations have indicated that this simple stress level criteria for assignment of unloading-reloading moduli should be modified in order to include consideration of variations in the confining stress (σ_3) as well as variations in stress level. The new (modified) model therefore distinguishes between primary loading and unloading-reloading based on "stress state" (SS) defined as

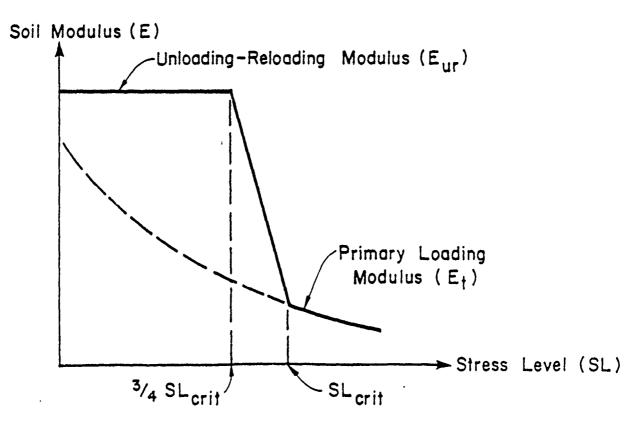
$$SS = SL \sqrt[4]{(\sigma_3/P_a)}$$
 (14)

where SL = Stress level = $(\sigma_1 - \sigma_3)/(\sigma_1 - \sigma_3)_f$, and

 P_a = atmospheric pressure, introduced in order to allow taking the fourth power radical of a dimensionless number.



a) Previous Model for Unloading-Reloading Moduli



b) Proposed Model for Unloading-Reloading Moduli

FIG. 3.3 MODELLING UNLOADING-RELOADING MODULI WITHOUT INTRODUCING COMPUTATIONAL INSTABILITY

The new model assumes primary loading moduli (E_t) are appropriate when the current stress state is greater than or equal to the maximum previous stress state ($SS > SS_{max\ past}$), and otherwise assumes unloading-reloading moduli (E_{ur}). Based on this criteria, the critical stress level (SL_{crit}) above which primary loading behavior is assumed for a given current confining stress (σ_3) may be calculated as

$$SL_{crit} = \frac{SS_{max past}}{4\sqrt{\sigma_3/P_a}}$$
 (15)

Figure 3.2(b) illustrates the division between primary loading and unloading-reloading stress paths based on the new stress state criteria for the same initial conditions as were shown in Figure 3.2(a). The stress space is now divided by a line which is slightly concave downwards, and inclined slightly away from the constant stress level line.

The second, and most serious, problem with the previous model for unloading-reloading behavior is that it can lead to computational instability during incremental analyses. Figure 3.3(a) illustrates the soil moduli resulting from application of the unmodified 1980 model. At all stress levels greater than or equal to the maximum previous stress level (SL_{max past}) the primary loading modulus (E_t) is applied, and at all lower stress levels the unloading-reloading modulus (E_{ur}) is applies. The sharp discontinuity shown to occur in this figure at SL_{max past} can result in a sudden change in modulus by a factor of more than 10 or 20 at this point. This can lead to computational instability during incremental finite element analyses, as soil elements incrementally subjected to loading at fairly constant stress levels may, as a

result of minor fluctuations in stress level, cross back and forth across the discontinuity experiencing large and unwarranted sudden changes in modulus. Attempts to minimize the impact of this source of potential computational instability by setting the boundary between primary loading and unloading-reloading at 0.95 SL_{max past} were unsuccessful.(8)

In order to prevent this potential source of computational instability, the new model provides for a less abrupt transition between unloading-reloading and primary loading moduli as illustrated in Figure 3.3(b), and described below:

- I. The transition from unloading-reloading to primary loading is based on the new stress state criteria as described previously. Knowing the stress state ($SS_{max\ past}$) which defines the boundary between primary loading and unloading-reloading behavior, the stress level (SL_{crit}) at which primary loading begins for a given confining stress (σ_3) can be determined using Eq. 15.
- 2. When $SL > SL_{crit}$, the primary loading modulus (E_t) as determined by Eq. 8 is used.
- 3. When SL < 3/4 SL_{crit}, the unloading-reloading modulus (E_{ur}) as determined by Eq. 11 is used.
- 4. When 3/4 SL_{crit} < SL < SL_{crit}, the modulus used is derived by linear interpolation between E_{ur} at 3/4 SL_{crit} and E_t at SL_{crit}, as shown in Figure 3.3(b).

This continuous linear transition between $E_{\tt ur}$ and $E_{\tt t}$ eliminates the sudden $E_{\tt t}/E_{\tt ur}$ discontinuity, and thus reduces the associated

potential for computational instability inherent in the previous model. The price of this elimination of a source of computational instability is that the new model underestimates, to some extent, the soil modulus during the initial stages of the transition from primary loading to unloading behavior. This underestimation is, however, of much less significance than the previous instability. In addition, the new model (a) provides (correctly) for a modulus in the range 3/4 SL_{crit} < SL < SL_{crit} which is significantly higher than E_t during both unloading and reloading, (b) provides an appropriate modulus (E_{ur}) in the range SL < 3/4 SL_{crit}, (c) provides an appropriate modulus (E_t) in the range SL > SL_{crit}, and (d) provides an improved model for soil behavior during the transition from reloading to primary loading.(8)

The previous (1980) model had a tendency, under certain conditions, to underestimate the bulk modulus (B) and thus to underestimate minor principal stresses as well as soil strength and stiffness. This problem occurred most frequently in elements with very low stress levels and high confining stresses. In order to overcome tendency of the bulk modulus model to underestimate Poisson's ratio at low stress levels for some soils, the lower bound constraint on the new model has been modified such that

$$B_{\min} > (E_{t}/3) \left\{ \frac{2 - \sin\phi}{\sin\phi} \right\} \qquad \text{for } \phi > 2.3^{\circ}$$
 (16)

and
$$B_{min} = 17 E_{t}$$
 for $\phi < 2.3^{\circ}$ (16a)

This supercedes the unmodified (1980) lower bound constraint of $B_{min} > E_t/3$ which constrained only against negative values of Poisson's ratio. When $\phi < 2.3^{\circ}$, ν_t is thus set equal to 0.49, as is appropriate for a cohesive soil under undrained conditions. For $\phi > 2.3^{\circ}$, this simple lower bound constraint on B has the effect of constraining Poisson's ratio be greater than or equal to ν_{min} where

$$v_{\min} = \frac{1 - \sin\phi}{2 - \sin\phi} \tag{17}$$

3.1.2 Analysis Procedure

The program FEADAM84 calculates the stresses, strains, and displacements in embankments, simulating the actual sequence of construction operations and post-construction loading conditions. The non-linear and stress dependent stress-strain properties of the soils are approximated by performing the analysis in increments.

An increment may consist of the placement of a new layer on the embankment, or of application of loads to a complete embankment. Each increment is analyzed twice (a two-iteration process), the first time using modulus values based on the stresses at the beginning of the increment, and the second time using modulus values based on the average stresses during the increment. The changes in stress, strain, and displacement calculated during the second iteration of each increment are added to the stresses, strains, and displacements at the beginning of the increment to give the total or cumulative values up to that stage of the analysis.(8)

During each increment, each element is checked to determine if it is in a state of primary loading, unloading/reloading, tensile failure, or shear failure, and is modelled accordingly as follows:

- a) Primary Loading. Primary loading moduli are used when the stress state of an element is greater than the maximum previous stress state of the element, and the minor principal stress (σ_3) is positive. If σ_3 is positive but less than 0.05 times atmospheric pressure, the modulus values are computed using σ_3 equal to 0.05 atmospheric pressure. If no unloading-reloading elastic modulus number is specified for a given soil type, then all elements of that type are modelled with primary loading moduli regardless of stress state, unless the element is in a state of tensile or shear failure.(8)
- b) Elastic Unloading. Unloading-reloading modulus values (E_{ur}) are used when the current stress state of an element falls below the previous maximum stress state. Linear elastic (stress-state-independent) materials may also be modelled using the program FEADAM84, and these are never considered to be in an unloading-reloading condition. ...(8)
- During the first iteration, the assigned bulk modulus (B) is computed using σ_3 equal to 0.1 times atmospheric pressure and the soil modulus (E) is set equal to one-tenth of the bulk modulus. If at the end of the first iteration the element is still undergoing tensile failure, both of the

moduli (E and B) are reduced to one-tenth of the values used in the first iteration. Linear elastic materials are not subject to tensile failure. ...(8)

d) Shear Failure. Shear failure occurs when the stress level of an element exceeds 95% of its shear strength. Modulus values are modelled using Equation 6, but corresponding to a condition where the product of stress level (SL) times the failure ration (R_f) equals 0.95, resulting in very low elastic moduli. Linear elastic materials are not subject to shear failure. ...(8)

3.1.3 Initial Analysis

FEADAM84, in its present form, is not capable of calculating internal forces and displacements of structural elements such as a geotextile placed in a roadway embankment. However, FEADAM84 is capable of modelling the failure mechanisms and stress distributions of existing roadway embankments constructed on permafrost. Analysis of geotextile reinforced roadway embankments will be accomplished with the use of SSTIPN obtained from Dr. J. M. Duncan at Virginia Tech. (See Appendix C)

3.1.3.1 <u>Summary of Analysis</u>. Two material properties can be specified within the FEADAM84 program: (1) a linear elastic material which is not subject to shear failure and which can take tension, and (2) a stress dependent non-linear elasto-plastic material which obeys the hyberpolic stress-strain and volumetric relationships described in Section 3.1.1.

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Linear-elastic materials are not applicable to this analysis and will not be discussed. For the stress dependent, non-linear elastoplastic soil materials, a total of nine parameters are required as summarized in Table 3.1.

Table 3.1 Summary of the Hyperbolic Parameters

Parameter	Name	Function	
K, Kur	Modulus number	Relate E $_{f i}$ and E $_{f ur}$ to σ_3	
n	Modulus exponent		
c	Cohesion intercept	Relate $(\sigma_1 - \sigma_3)_f$ to σ_3	
φ, Δφ	Friction angle parameters		
Rf	Failure ratio	Relates $(\sigma_1 - \sigma_3)_{ult}$ to $(\sigma_1 - \sigma_3)_{f}$	
κ _b	Bulk modulus number	Value of B/P _a at $\sigma_3 = P_a$	
m	Bulk modulus exponent	Change in B/P _a for ten-fold increase in σ_3	

All of these parameters can be evaluated from a series of triaxial compression tests. These procedures are described by Duncan and Wong (1974).

Three steps are required to accurately model the existing failure mode of the Farmer's Loop Road in Fairbanks, Alaska. First, the question of "What were the causes of roadway embankment failure?" must be answered. Second, an appropriate representation of the roadway embankment geometry including foundation soil must be defined. Third, an accurate representation of the roadway embankment performance through the selection of soil parameter values to be input into the program.

The failure mechanisms associated with roadway embankments overlying weak foundations have been described in Sections 1.1 and 2.2. The failure of the Farmer's Loop Road is directly related to the seasonal thawing of the frozen foundation soil underlying the side slopes of the embankment. This degradation can be further amplified by the insulating effect of snow over the sideslopes which prevents the complete freeze-back of the active layer (13). The consequential consolidation of the thaw unstable permafrost results in differential settlement of the roadway embankment showing up as longitudinal cracks along the wearing surface (13, 14), as shown in Figure 1.1.

The roadway embankment geometry selected for the numerical analyses (See Figure 3.4) is taken from the State of Alaska Department of Transportation and Public Facilities (DOT&PF) Typical Cross Section of Farmer's Loop Road (See Figure 3.5) and the Engineering Geology and Soils Report (1985). The actual roadway embankment geometry varies along the length of the road and is a function of the amount of cut and fill, grade, and superelevation of curves. The geometry selected in the analysis represents a typical section along the road.

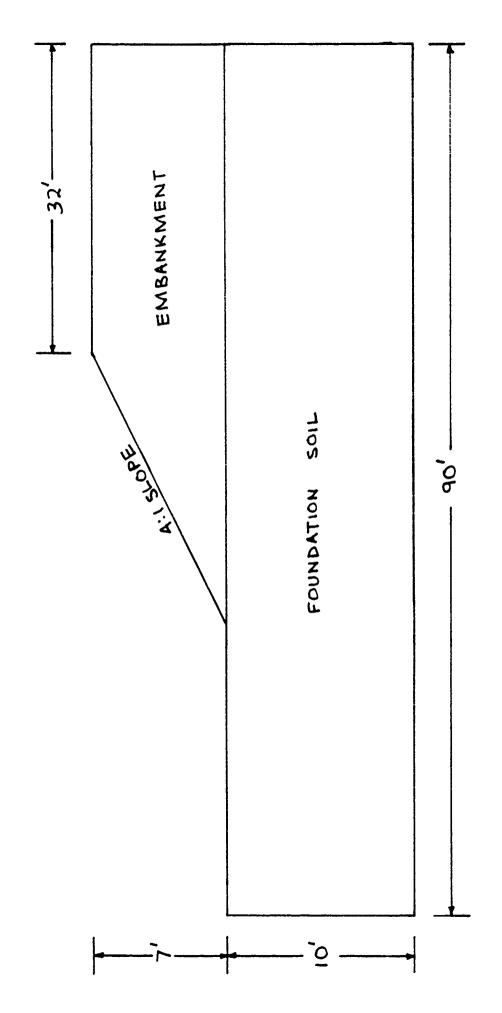
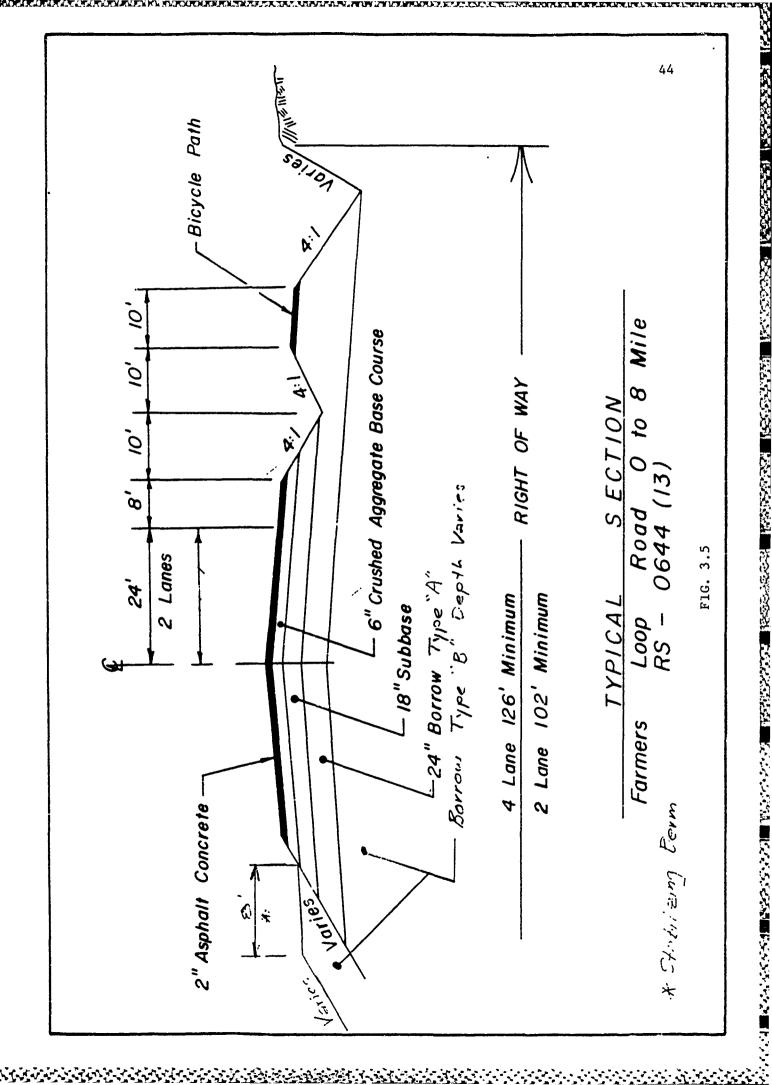


FIG. 3.4 EMBANKMENT GEOMETRY USED IN NUMERICAL ANALYSES

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Modelling embankment performance is primarily dependent upon the proper selection of soil parameter values to be evaluated by the program. The soil parameters used in the hyperbolic model may be obtained from triaxial compression tests. Three soil types are used in modelling embankment performance in both FEADAM84 and SSTIPN. roadway embankment is modelled as one type for convenient use in the program. Permafrost and thaw-unstable permafrost parametric values are estimated from Duncan et al. (1974) due to insufficient availability of test data on these types of soil materials. Since actual data are not available for the thaw-ustable permafrost, the objective is to obtain relative strength data for the three soil types used to model existing conditions. The three soil types modelled are crushed rock for the embankment, soft clay for the thaw unstable permafrost, and hard clay for the permafrost. The parametric values obtained for the crushed rock were obtained from Schauz (1981). The data obtained for soft and hard clay were obtained from Duncan et al. (1974). The values obtained for all three soil types are summarized in Table 3.2.

Table 3.2 Soil Parametric Values Used in FEADAM84 and SSTIPN

Parameter	Crushed Rock	Soft Clay	Hard Clay
К	6000.0	40.0	1000.0
Kur	8000.0	80.0	1500.0
n	0.5	0.3	0.4
$R_{\mathbf{f}}$	0.5	0.9	0.7
Кb	1500.0	20.0	500.0
m	0.6	0.2	0.5
С	0 psf	100 psf	1000 psf
ψ	35°	0°	40°
Δφ	00	0°	0°
Υ	135 pcf	106 pef	120 pcf
K _O	0.5	0.5	0.5

The relative locations of the soil types and mesh used in the finite element analysis are shown in Figure 3.6. Location of the talik zone used in the analyses is consistent with data obtained by the State of Alaska POT&PF (13, 14, 19). For most cases reasonably accurate results can be achieved by using eight or more layers in the mesh, and adding one layer at a time to the embankment. However, six layers were used to investigate the relative accuracy of the model with that of Figure 1.1. Six layers also allowed more flexibility in areas which required some refinement (See Figure 3.7). Figure 3.8 represents the deformed state of the original model. The failure mode associated with the Farmer's Loop Road can be detected in Figure 3.8. The deformed geometry plot is performed using Program GRAPH (See Appendix D). The consolidation of talik zone and severe surface deformation of the top of the embankment are clear. Through analysis of this figure, the material properties are reasonably accurate for further use in SSTIPN.

3.2 SSTIPN Analysis

SSTIPN calculates stresses, strain and displacements in soil elements and internal forces and displacements in structural elements by means of analyses which simulate the actual sequence of construction. The non-linear and stress-dependent stress-strain properties of the soils are approximated using the procedures developed by Kulhawy, Duncan, and Seed (1969). The structural materials are assumed to behave linearly. The soil model used is predecessor to the existing soil model used in FEADAM84. The purpose of utilizing SSTIPN is to analyze the effects of placing different structural materials within a

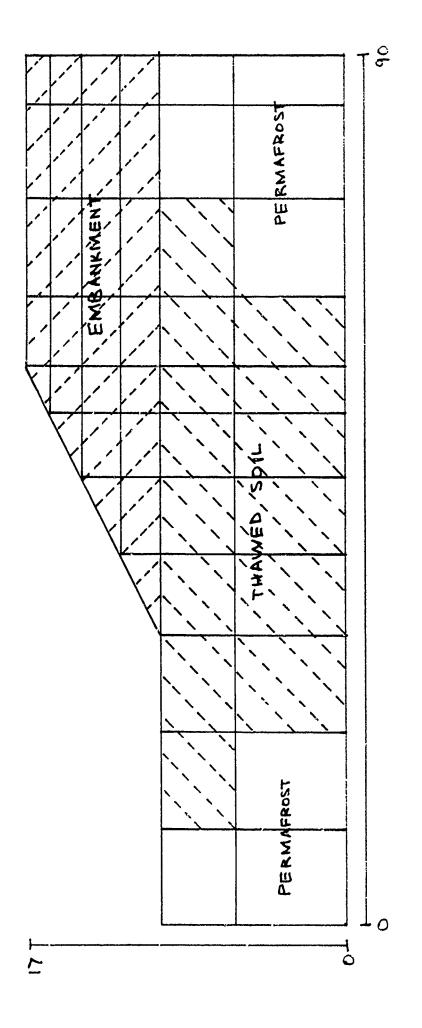


FIG. 3.6 FEADAM84 EMBANKMENT MODEL

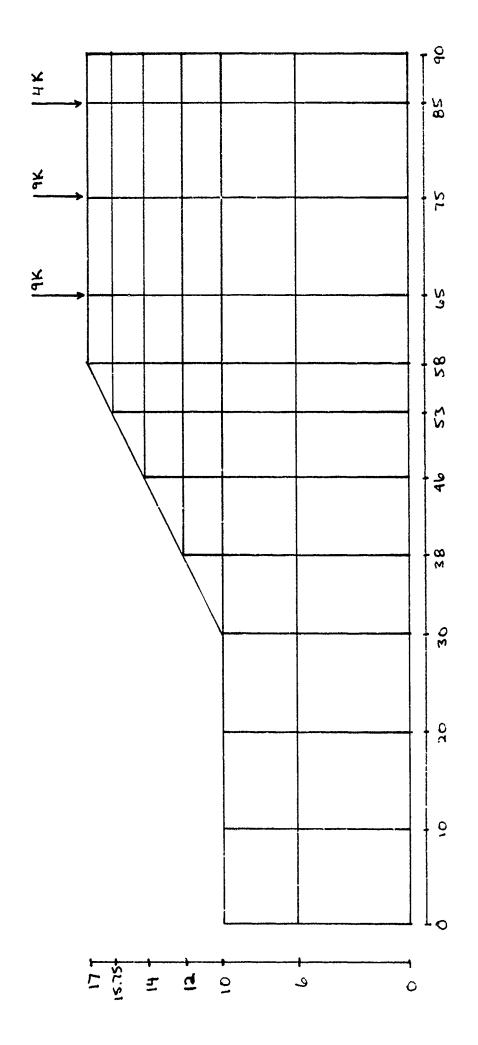


FIG. 3.7 FEADAM84 EMBANKHENT GEOMETRY

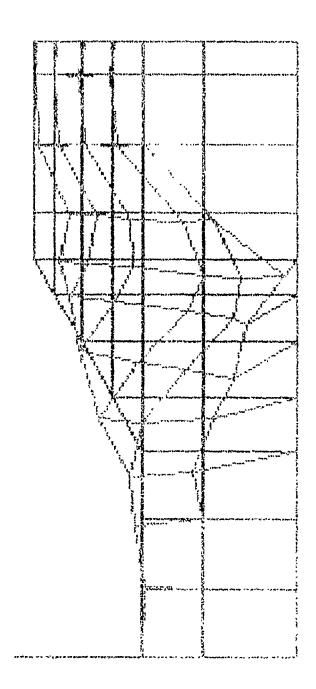


FIG. 3.8 DEFORMED EMBANKMENT GEOMETRY OF FEADAM84 ANALYSIS

roadway embankment constructed on permafrost.

3.2.1 Assumptions

The results of FEADAM84 reveal some important points. First, the soil parameters selected for the analyses are appropriate and accurately model roadway embankment performance in permafrost regions. The deformed roadway embankment model, Figure 3.8, depicts the distressed condition as a result of thaw-unstable foundation soil located beneath the side slopes of the embankment. Second, the geometry and location of the soil types are relatively accurate within the model. The relative location of the soil material properties, Figure 3.6, allows the roadway embankment model to behave consistently with DOT & PF articles (9, 21).

The conditions of the SSTIPN analyses are as follows:

- 1. Embankment geometry is identical to both STABGM and FEADAM84 analyses. Foundation soil height = 10 feet. Embankment soil height = 7 feet. Total number of soil elements if increased from 48 to 78 elements.
- 2. Five different strength modulae are analyzed for the geotextile properties. In addition, five different conditions are analyzed for each separate geotextile strength modulus.
- Soil/geotextile interface is modelled for no slip between soil elements and structural elements.

Figure 3.9 depicts the mesh that is used in the SSTIPN analyses. The foundation and embankment numbers of layers are increased to three

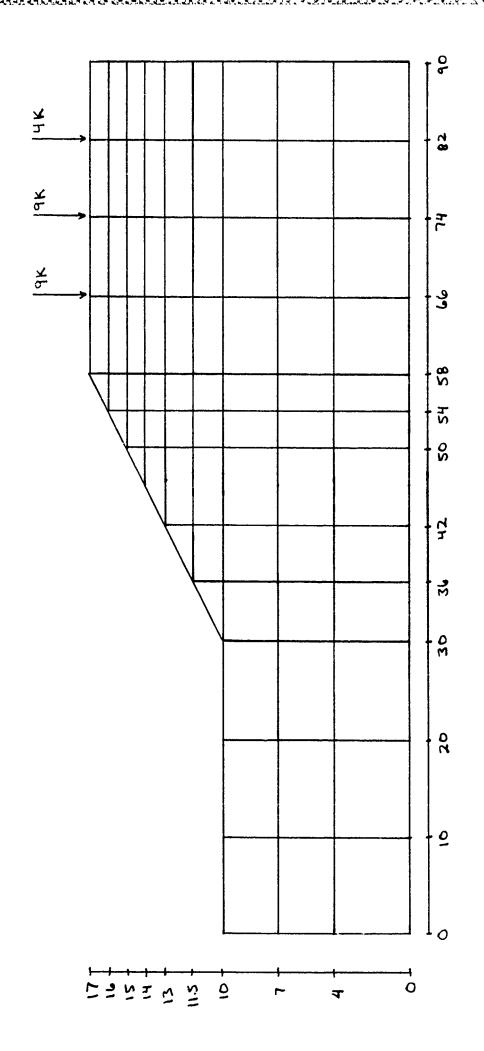


FIG. 3.9 SSTIPN EMBANKMENT GEOMETRY

and six, respectively to provide more accurate results of displacements and stresses. Figure 3.10 depicts the location of the three soil material types in the analyses. The location of the thaw-unstable material beneath the side slopes is consistent with articles from the state of Alaska DOT&PF (9, 15, 21).

The five geotextile strength modulus are displayed in Figure 3.11. Tensile strengths of 1000, 2000, and 4000 pounds per inch with strains of 5 and 20 percent are evaluated. SSTIPN does not differentiate between modulae with different strain. SSTIPN calculates the stiffness of each member in force per unit width without consideration to percent elongation. Therefore, a material with strength of 1000 pounds per inch at 5 percent strain is identical to a material with a strength of 4000 pounds per inch at 20 percent strain.

The five conditions analyzed for each strength modulae are as follows:

- Three layers of geotextile are located within the embankment. The first layer located at the embankment/foundation interface and the second and third layers located three and five feet above the embankment/foundation interface, respectively.
- Three layers of geotextile with identical locations as the first condition with a pre-tension of 1000 pounds per foot on all three layers.
- One layer of geotextile located at the embankment/foundation interface.
- 4. One layer of geotextile located at the embankment/foundation

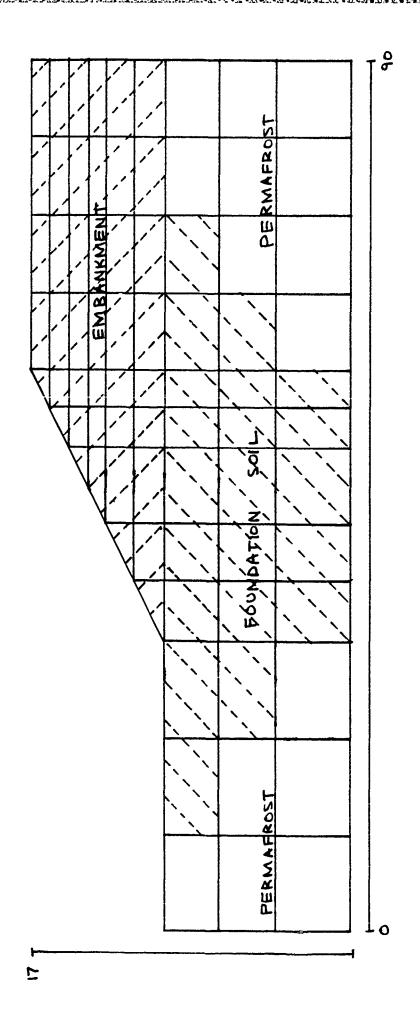


FIG. 3.10 SSTIPN EMBANKMENT MODEL

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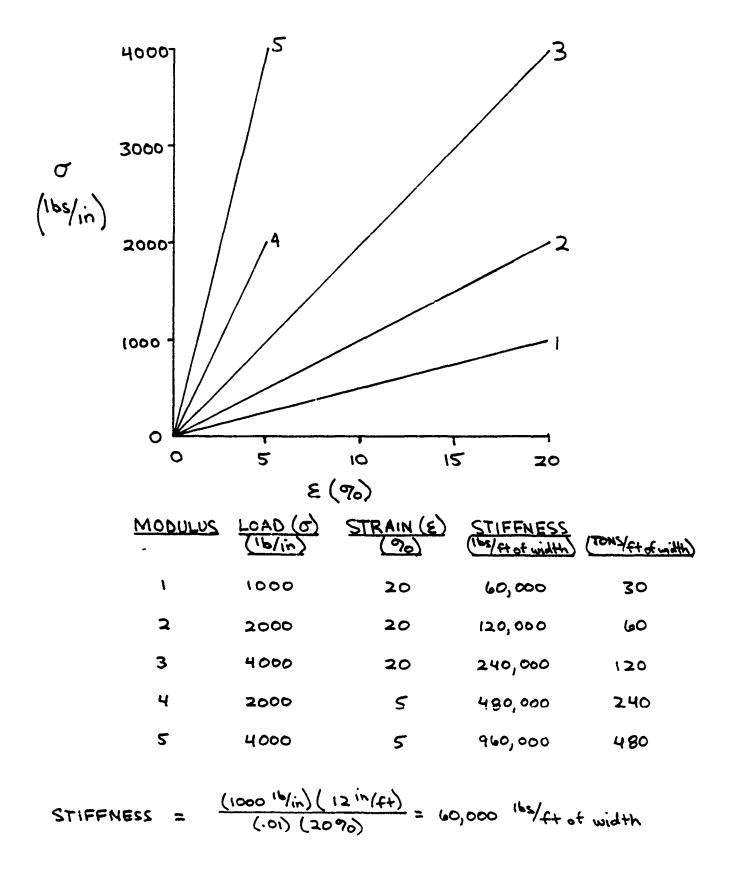


FIG. 3.11 GEOTEXTILE STRENGTH MODULAE

interface with a pre-tension of 1000 pounds per foot.

interface with a pre-tension of 1000 pounds per foot. The geotextile extends 10 feet beyond the toe of the embankment.

SSTIPN has the capability of modelling friction between soil and structural elements. The geotextile/soil interface is modelled with total friction, i.e., no slip between the soil and geotextile. The overall accuracy increases only by about 5 percent with the addition of friction elements.

Modelling without friction elements is convenient for repetitive analyses and does not reduce the accuracy enough to cause a significant difference.

3.2.2 Results of SSTIPN Analysis

The analysis of SSTIPN results includes obtaining displacement and stress data from the output to evaluate the effect of each different modulae given the different conditions. The analysis of the roadway embankment with three layers of geotextile did not provide reliable results due to instability of SSTPIN in calculating displacements. Therefore, analyses of the five modulae with the first two conditions mentioned will no longer be discussed.

Displacement data extracted from SSTIPN output for all five different strength modulae with the last three conditions are plotted using the GRAPH in Appendix D. Figures 3.12 through 3.27 depict the deformed geometry for each case. Figures 3.28 through 3.43 the deviatoric stress distribution for the identical conditions used to plot the deformed geometry.

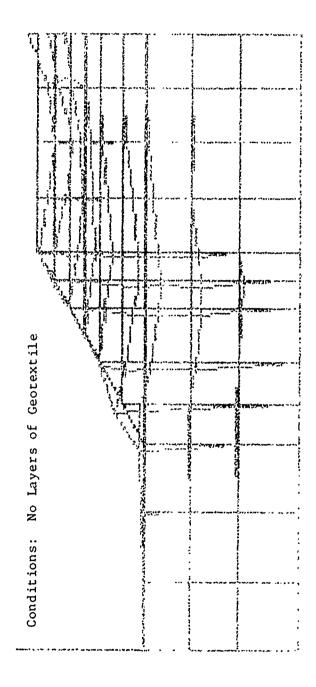


FIG. 3.12 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

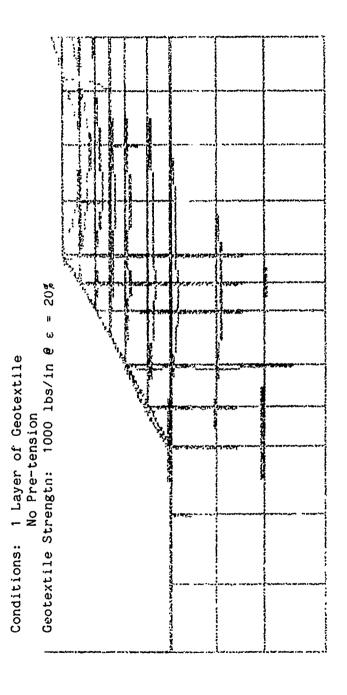


FIG. 3.13 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

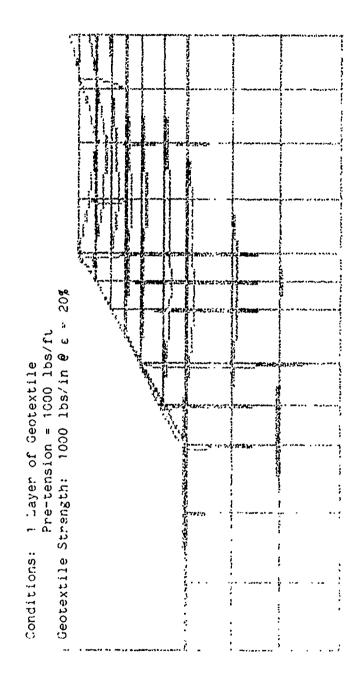


FIG. 3.14 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

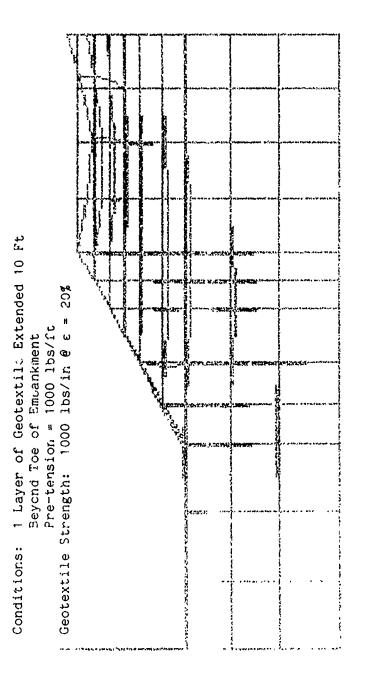


FIG. 3.15 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

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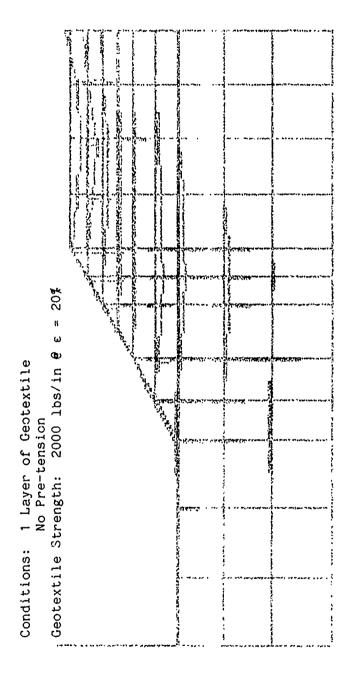


FIG. 3.16 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

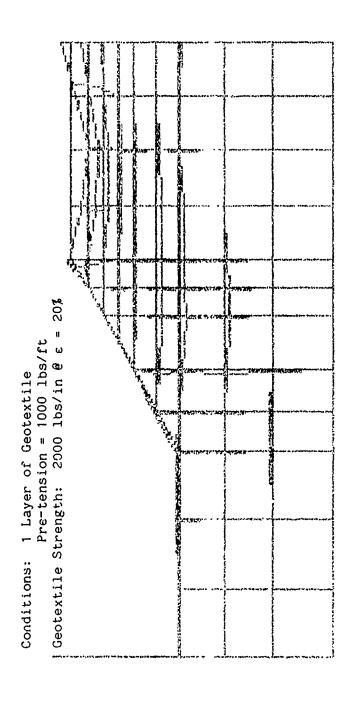


FIG. 3.17 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

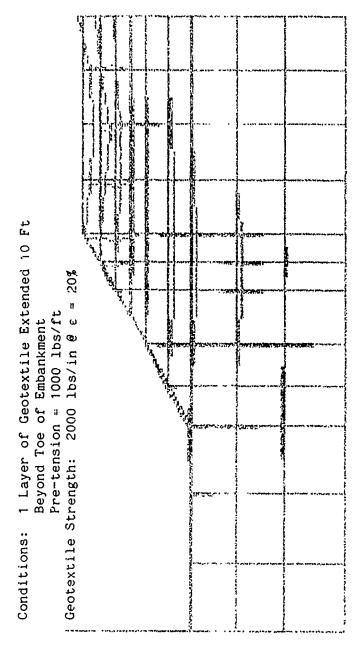


FIG. 3.18 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

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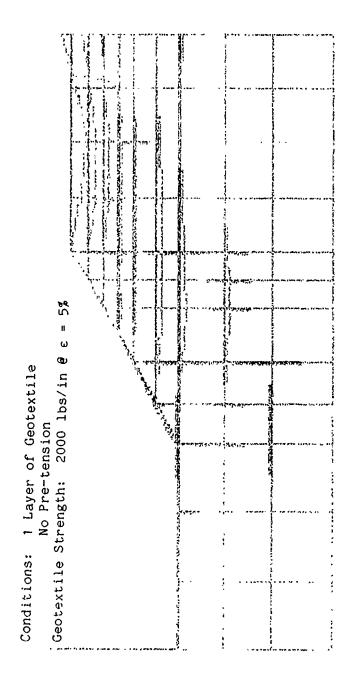


FIG. 3.19 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALISIS

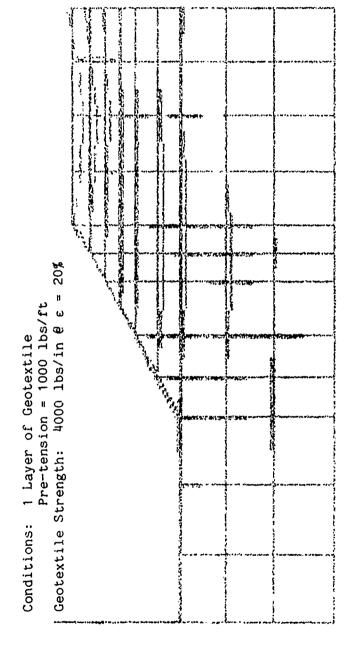
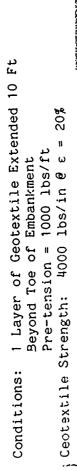


FIG. 3.20 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS



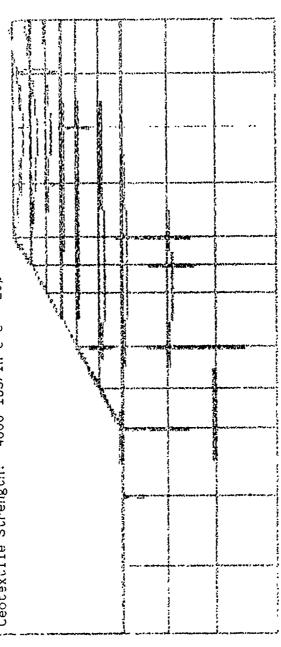


FIG. 3.21 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

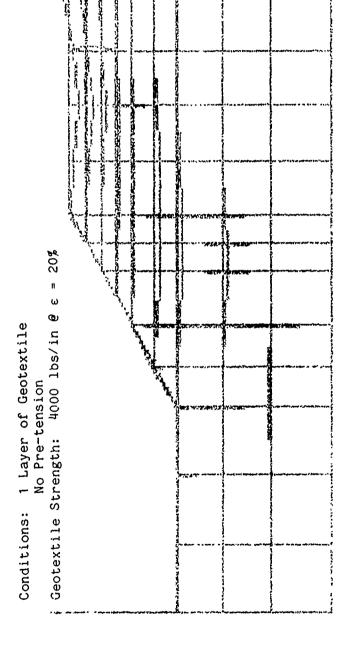


FIG. 3.22 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

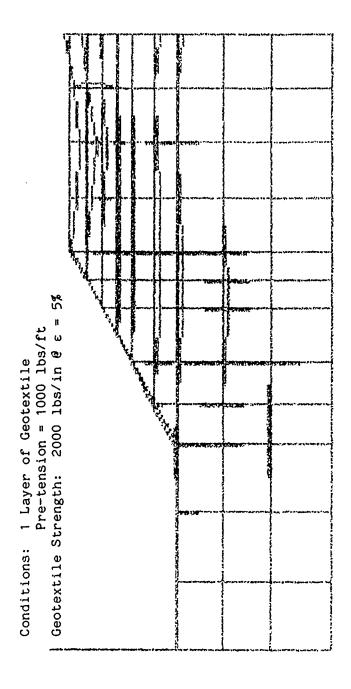


FIG. 3.23 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

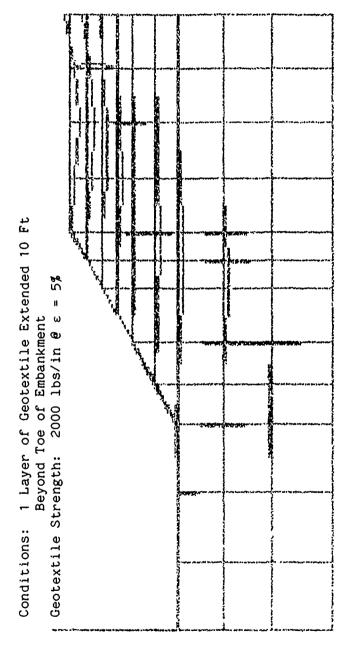


FIG. 3.24 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

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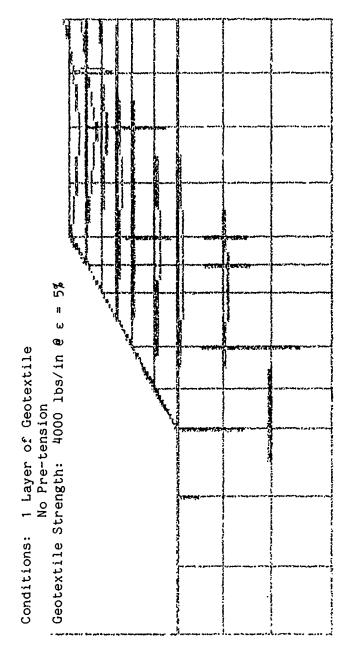


FIG. 3.25 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

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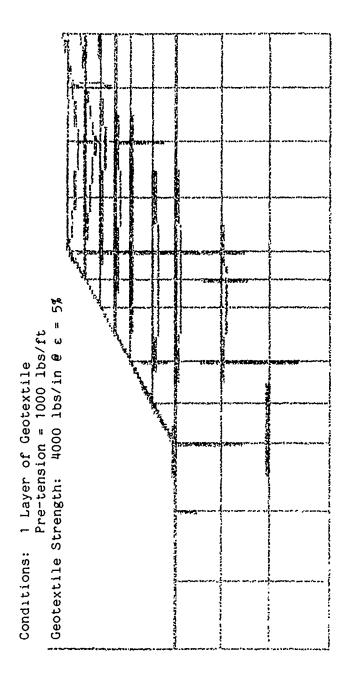


FIG. 3.26 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

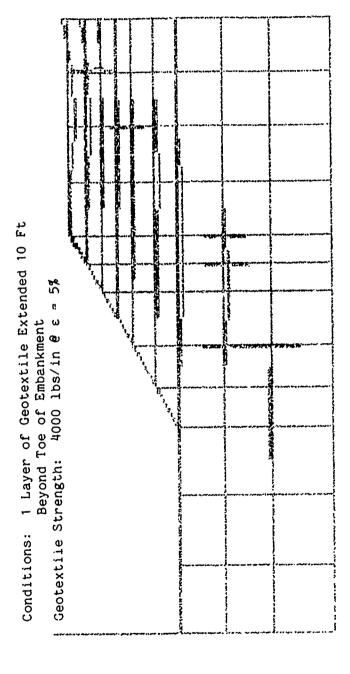


FIG. 3.27 DEFORMED EMBANKMENT GEOMETRY OF SSTIPN ANALYSIS

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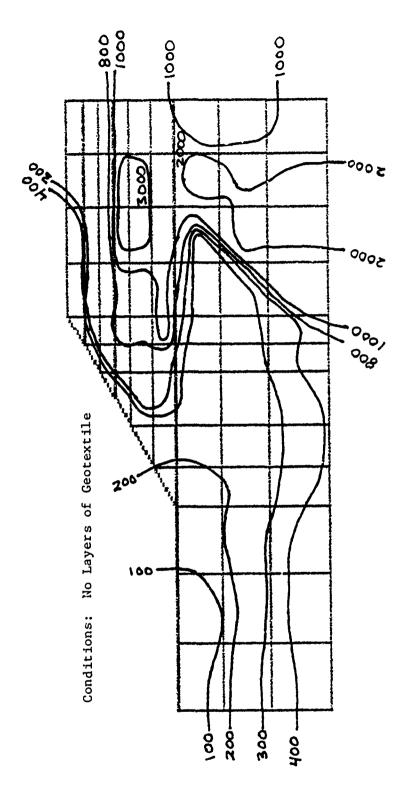


FIG. 3.28 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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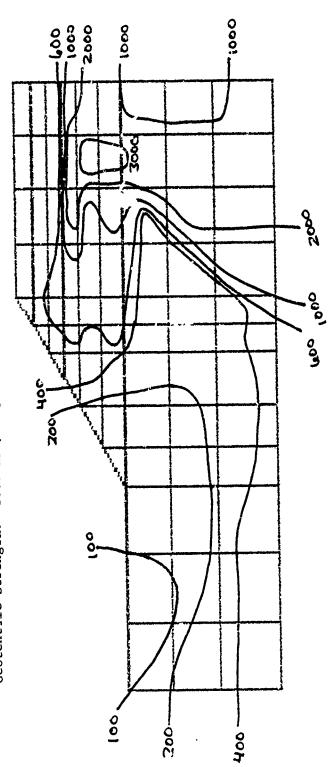
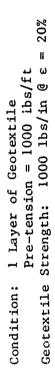


FIG. 3.29 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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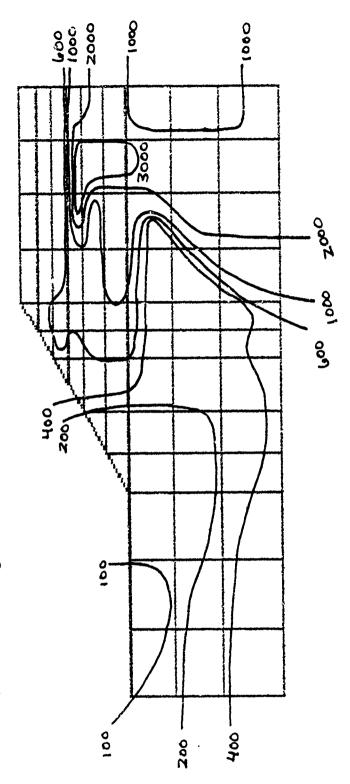


FIG. 3.30 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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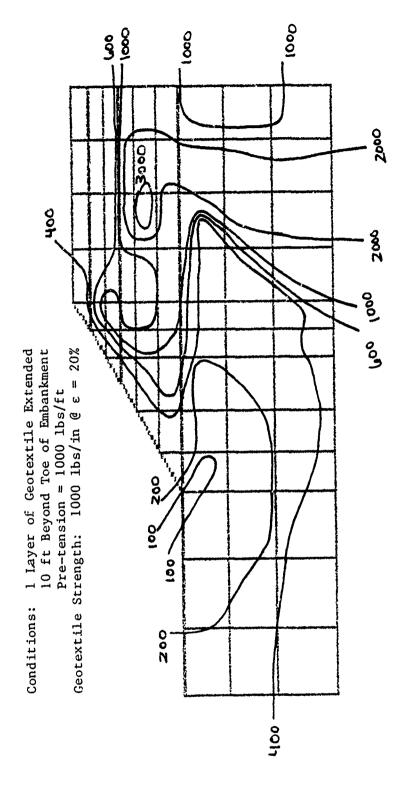


FIG. 3.31 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

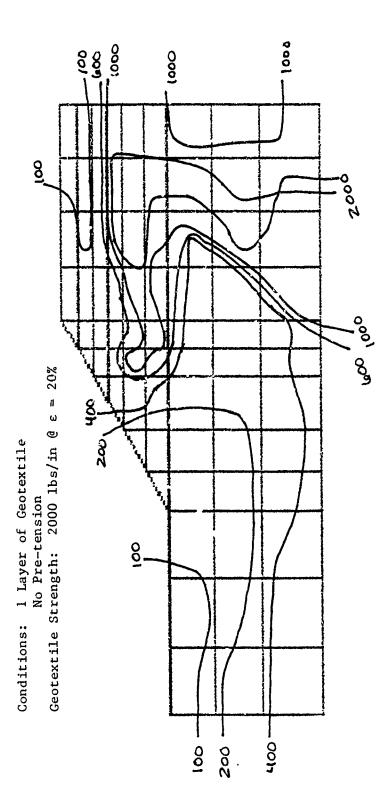


FIG. 3.32 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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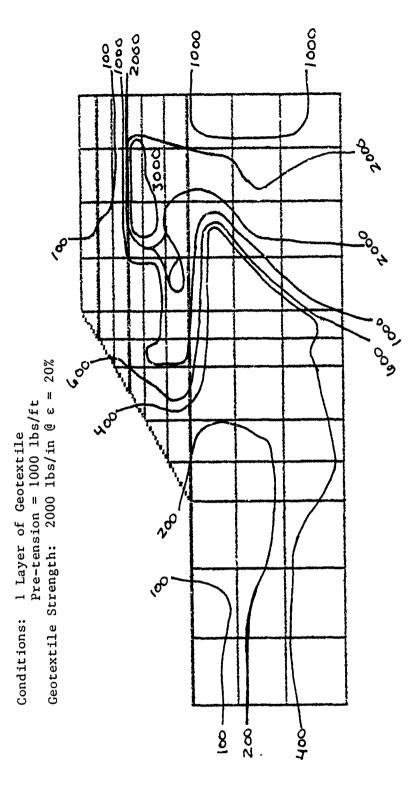


FIG. 3.33 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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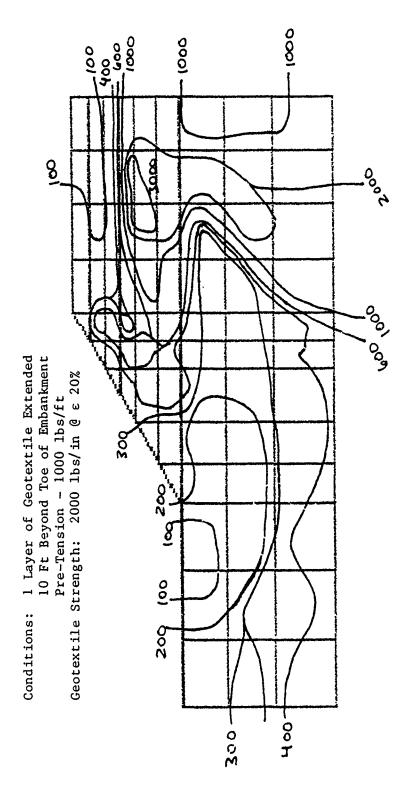


FIG. 3.34 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

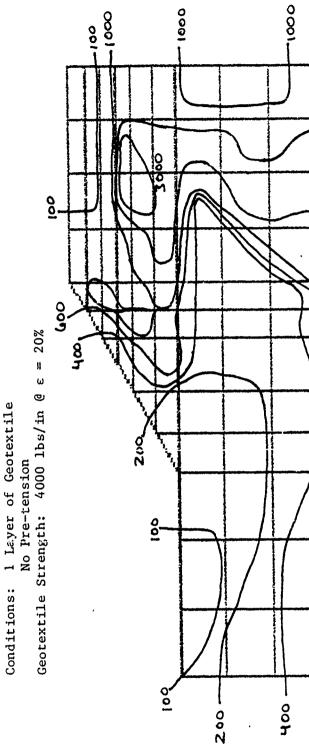


FIG. 3.35 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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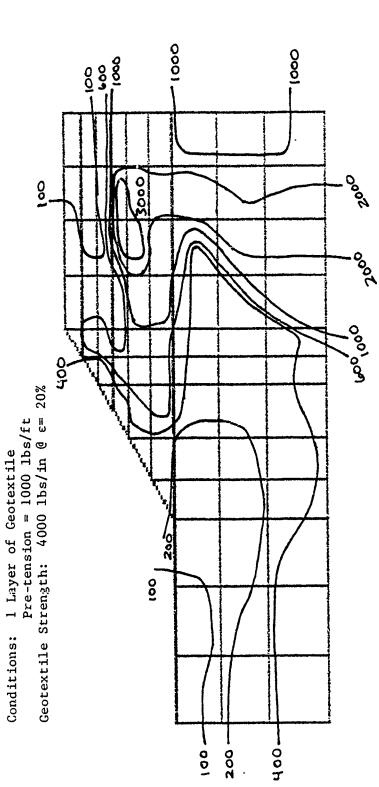


FIG. 3.36 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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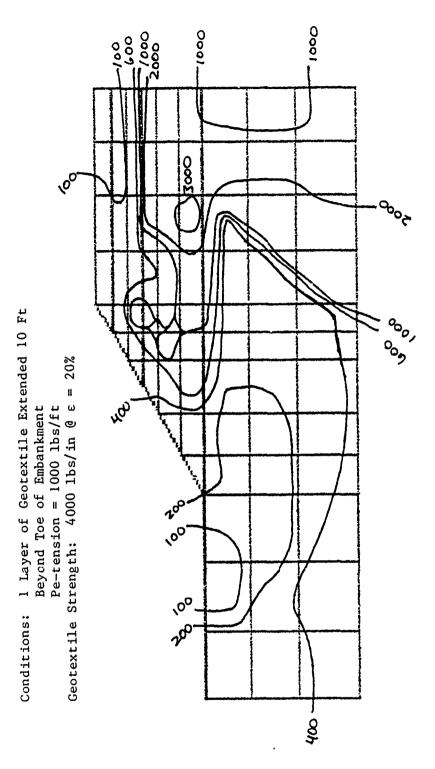


FIG. 3.37 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

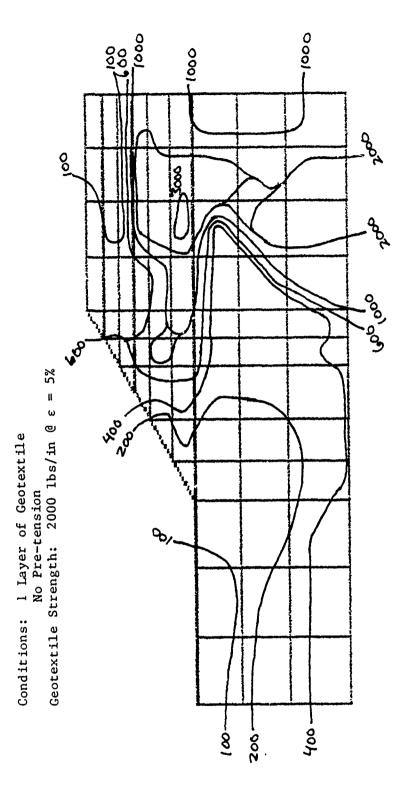


FIG. 3.38 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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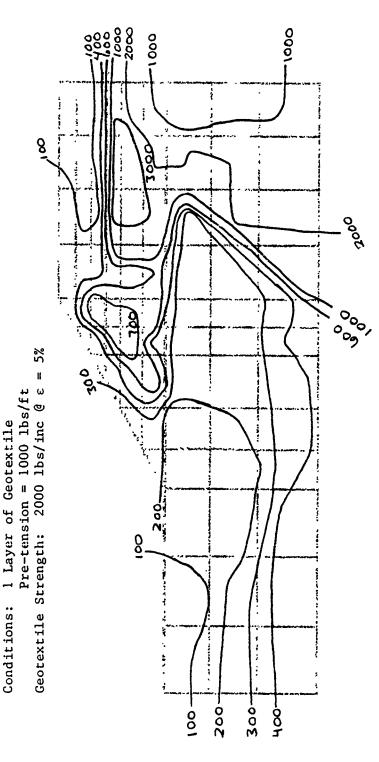


FIG. 3.39 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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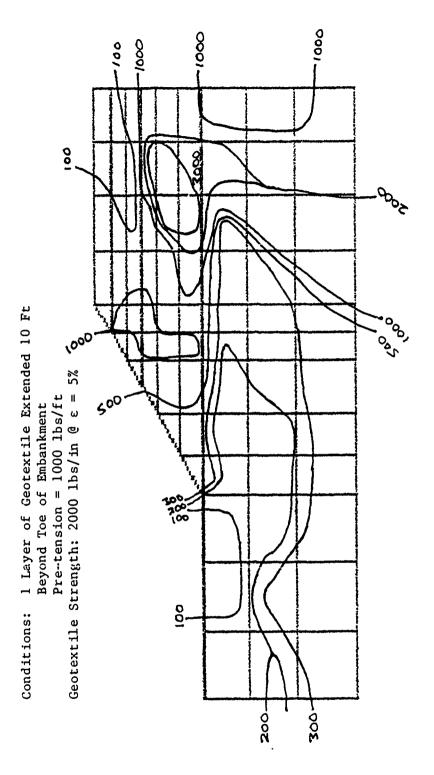


FIG. 3.40 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

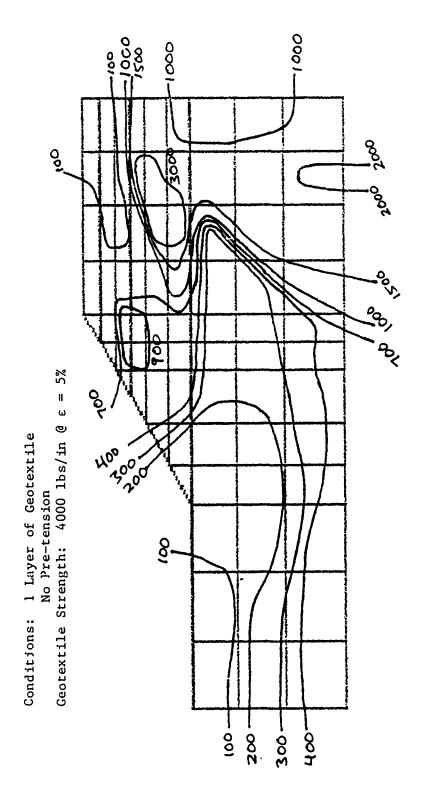


FIG. 3.41 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

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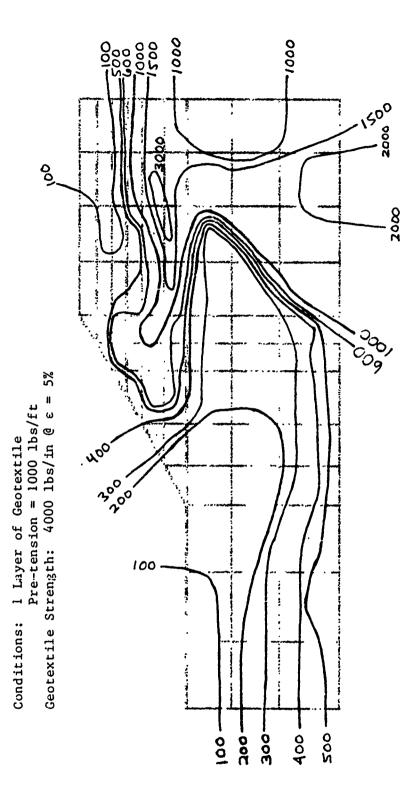


FIG. 3.42 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS



THE THE TAXABLE PROPERTY OF THE PROPERTY OF TH

Conditions: 1 Layer of Geotextile Extended 10 Ft Beyond Toe of Embankment Pre-tension = 1000 lbs/ft Geotextile Strength: 4000 lbs/ft

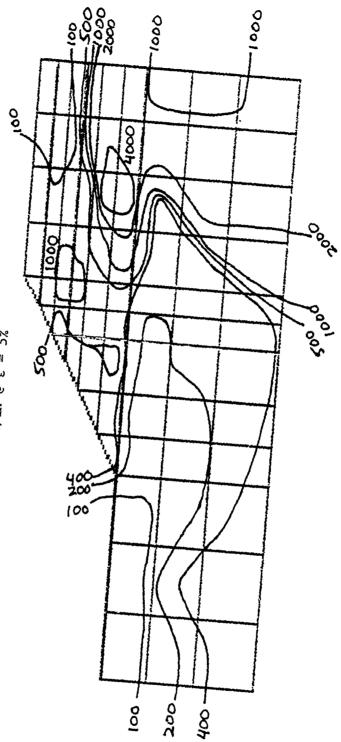


FIG. 3.43 DEVIATORIC STRESS CONTOUR OF SSTIPN ANALYSIS

3.2.2 Conclusions and Recommendations

There are two major factors which determine whether or not a numerical analysis is reliable. First, existing conditions must be modelled properly. Geometry and material properties must be as close to actual conditions as possible to accurately simulate behavior of the model. Second, the program must be able to evaluate conditions which may exist in the field. The soil model must be able to determine appropriate values for strength to simulate actual conditions. The hyperbolic model used in SSTIPN models soil conditions very accurately up to the point of failure. Once failure of the soil results, the model is not capable of simulating accurate conditions. Appendix E contains detail results of all analyses. Close observation of the analyses reveals the occurrence of shear and tensile failure within soil elements located within the thaw-unstable soil and roadway embankment. Failure occurs within the foundation soil from the placement of the embankment's first layer. With the placement of the additional five layers of embankment soil, an increasing number of soil elements enter a failure mode. Observation of stress contours for all conditions do not reveal a major redistribution in stress throughout the embankment and foundation as a result of the addition of a geotextile and increases of strength in the geotextile. The stress contours of the analysis with no layers of geotextile is not very different from the analysis with one layer of geotextile with a strength of 4000 pounds per inch at 5 percent strain. The inability of the hyperbolic model to accurately simulate soil conditions after failure is the primary cause for the difference. With soil elements in

a failure mode throughout each analysis, the computation of stresses within the embankment apparently do not differ very much. In the final analysis, the resulting stress distributions are similar.

Observation of the deformed roadway embankment models, Figures 3.12 through 3.27, reveal subtle differences between each condition. The inability of the hyperbolic model to simulate soil properties after failure has the same effect on displacements as it does on stress computation. However, the diagrams display more displacement with weaker geotextile properties. This indicates the positive effect of stronger geotextile properties. It is difficult to assess which property has the most positive effect due to the programs inability to distinguish between different strain values. However, geotextiles which have higher strength and higher modulae tend to maintain embankment integrity and reduce the failure mechanisms associated with embankment stability. The more the embankment is allowed to deform over the thaw-unstable region, the more the risk for longitudinal cracking in the wearing surface.

The addition of a soil berm and geotextile extension outside the toe of the embankment causes the degradation of thawing to occur beneath the berm more than the sideslopes of the embankment. The result is consolidation of the thaw-unstable soil beneath the berm more than beneath the sideslopes of the embankment. This increases embankment stability and reduces the risk of longitudinal cracking in the wearing surface.

Through further observation of geotextile forces in Appendix E, the failure capacity is not attained in any analysis. This indicates

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that geotextile integrity is not impaired and will not fail under these conditions.

A comparison of Figure 3.8 and 3.12 reveals a discrepancy between the resulting displacements in the FEADAM84 and SSTIPN analysis. The soil model employed in the SSTIPN program is an older version of the model used in the FEADAM84 program. Displacements of the embankment model should have been similar given the same condition. The FEADAM84 deformed geometry, Figure 3.8, shows more displacement than the SSTIPN deformed geometry, Figure 3.12. The increased number of soil elements in the SSTIPN analysis should add more flexibility to the model. From the results obtained, the opposite occurs. The cause of this discrepancy is primarily attributed to the different generation of hyperbolic soil model.

Also, proper modelling of soil conditions after failure is best achieved with a plasticity model. The addition of this type of soil model in this program would greatly enhance its effectiveness in evaluating roadway embankments constructed over weak soil.

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APPENDIX A

STABGM INITIAL ANALYSIS

Figure 2.4 depicts the conditions of the initial STABGM analysis. Detailed results of the initial analyses are contained herein. Minimum factor of safety data from analyses with no layers of reinforcement with different foundation geometry are enclosed. Comparison of minimum factor of safety data with three and four layers of reinforcement are also enclosed.

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 (set, 10 feet from centerline

CUNTROL DAT	A.
-------------	----

NUMBER OF	SPECIFIED CENTERS	43
NUMBER OF	DEPTH LIMITING TANGENTS	3
NUMBER OF	VERTICAL SECTIONS	12
NUMBER OF	SOIL LAYER BOUNDARIES	5
NUMBER OF	PORE PRESSURE LINES	•
MIMPED OF	COINTS DESINING CONESION PROFILE	0

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 67.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEFTH, 28.0, 30.0, 35.0,

GFOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.0	64.0	69.0	71.0	74.0
T. CRACKS	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.)	25.0	25.0
BOUNDARY 1	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDAN 3	35.0	35.0	25.0	25.0	25.0	25,0	25.0	25.0	25.0	25.0	J5.0
BOUNDAF. 4	35.0	35.0	28.0	30.0	75.0	35.0	75. 0	35.0	3010	28.0	35.0
BOUNDARY	35.0	35.0	35 . C	75.0	35.0	7855 😲	35.0	TOTAL CO	77E . C	TELO	

FCINFORCING FURCE DATA AT 0 LEVEL (4)

BOIL PROPERTIES

LAYER	CUHESION	FRICTION ANGLE	DEMSITY
1.	. 0	75.0	135.0
2	1000.0	40.0	120.0
7	100.0	. O	105.0
4	1000.0	$A\phi_{a}\phi$	120.0

BISHOP MODIFIED AND OR OPDINARY METHOD OF SLICES

permafrost depth 5 feet, 10 feet from senterline

MUMBER	TAMBENT	RADIŮS	(X) LENTER	YY CENTER	FS(BISHOF)	FE(OMS)	dF9 (59 ·
1	28.0	6.0	37.0	22.0	CENTER PE	ELOW INTERPO	LATED OF
2	28.0	5.0	77.0	20.0	CENTER PI	ELOW DATER	MATED OF
	29.0	10.0	77.0	18.0	• ***	. Pc. 3	, Çoğu
4 ¹ .	28.0	5.0	41.0	Annual desired	CENTER BI	ELOW INTERPO	OLATED OF
ন	രയും	2.6	~~ , ,	27 (4)	to the south in the	HENTSON OF SOM	-

				and the state of the state of	wastenam com	نا الرساب يالزياب،	
Ġ	28.0	10.0	35.0	18.0	1.007	.721	, Calv
7	29.0	12.0	37.0	16.0	. 988	.909	.000
8	28.0	10.0	39.0	18.0	1.037	.921	, 000
9	28.0	8.0	37.C	20.0	.977	.85%	.000
10	28.0	12.0	35.0	16.0	1.041	.950	, 000g
11	28.0	12.0	39.0	16.0	1.041	.950	.00.
12	28.0	8.0	39.0	20.0	1.076	,927	, ÷(·
13	28.0	8.0	35.0	20.0	1.101	,927	, 0.00

F.S. MINIMUM= .966 FOR THE CIRCLE OF CENTER (D7.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y)	CENTER	FS(BJSHOP)) FS(OMS)	dFS(BS)
1	70.0	10.0	35.0		20.0	, 932	.842	,000
2	30.0	10.0	31.0		20.0	1.702	1.305	.000
য়	30.0	14.0	35.0		16.0	.914	.847	.000
Δ	30.0	10.0	30.0		20.0	.972	.842	.000
চ	30.0	6.0	35. 0		24.0	CENTER B		DLATED CR.
6	30.0	14.0	33.0		16.0	1.012	.926	.000
7	30.0	16.0	35.O		14.0	.950	.872	.000
8	30.0	14.0	37. /		16.0	.986	.823	.000
9	30.0	12.0	35.0		18.0	.910	.831	.,000
10	30.0	16.0	37.0		14.0	.905	.852	.000
11	50.0	14.0	39.0		16.0	. 914	.847	.000
12	30.0	12.0	37.0		18.0	.874	.802	.000
13	J0.0	12.0	35.0		18.0	.910	.831	.000
14	30.0	12.0	39.0		18.0	.910	.831	, <u>(</u> 0000)
15	30.0	10.0	37.0		20.0	.882	.802	.000
16	30.0	14.0	75.0		16.0	.914	.847	.000
17	50.0	14.0	39.0		16.0	.914	.847	.000
18	30.0	10.0	39.0		20.0	.932	.942	.000
19	20.0	10 0	35.0		20.0	.902	*840	. 000

F.S. MINIMUM= .874 FOR THE CIRCLE OF CENTER (57.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS (BISHOS)	FS(OMS)	dFS(BS;
i	75.0	15.0	75.0	20.0	.840	.917	, 0.00
2	75.0	15.0	31.0	20.0	1,030	୍ଦଧ୍ତ	, const
-	75.0	19.0	55.0	16.0	.377	704	, dojet
Ţ	T5.0	15.0	79.0	2016	.350	.E:7	, e ¹ 14 · e ² 1
5	35. 0	11.0	35.0	24.0	CENTER LEL		DLATED IF.
6	ಶಕ.೧	19.0	77.00	16.0	.877	1 30 5	, તુંલફેલ
7	75.0	21.0	75.0	14.0	.970	7709	, geneg
8	05.0	19.0	77.0	16.0	n Early are	7737	. 44
Ģ	75.0	17.0	75.0	18.0	.812	_ ~ ~ ~ ~ ~	, ÇÇÇ
10	J5.0	21.0	77.0	14.0	.509	, = a, . ,	, กันวุ่น
11	35. 0	19.0	39.0	16.0	.877	<u> </u>	.00
1.	35.0	17.0	37.0	(S.O	.923	. 795	ે હૈલ્હેલ
17	39.0	21.0	75.0	14.0	.970	أخرقت	, Çulu
į a	75.00	71.0	7,4	14.6	, ३७०	; 3 /5	, ĉiĝi
Ξi	75.0	17.0	39.0	19.0	įėlia) 5	, Quije
15	75.0	17.0	75,0	18.0	.847	. 797	. 00.

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 15 feet from centerline

CONTROL DATA

NUMBER OF	SPECIFIED CENTERS	O
NUMBER OF	DEPTH LIMITING TANGENTS	3
NUMBER OF	VERTICAL SECTIONS	12
NUMBER OF	SOIL LAYER BOUNDARIES	5
NUMBER OF	PORE PRESSURE LINES	O
NUMBER OF	POINTS DEFINING COHESTON PROFILE	0

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0.

GEOMETRY

SECTIONS	.0	15.0	18.0	20.0	25.0	52.0	42.0	59.0	64.0	66.0	69.0
T. CRACKS	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	J5.0	35.O	25.0	25.0	25.0	25.0	25.0	25.0	23.0	25.0	JS. 0
BOUNDARY · 4	35.0	35.0	28.0	30.0	J5.0	35.0	35.0	35.0	TO.0	28.0	35.O
BOUNDARY 5	75 0	75 0	75 O	75 0	75.0	75.0	35.O	75 0	75	35.0	75.0

■ では、これでは、100mmのでは

REINFORCING FORCE DATA AT 0 LEVEL(s)

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DEMSITY
i	. 0	75.0	138.0
2	1000.0	40.0	120.0
7	100.0	, Q	105.0
4	1000.0	40.0	120.0

BISHOF MODIFIED AND/OF OPDINARY METHOD OF SLICES

permafrost depth 5 feet, 15 feet from centerline

NUMBER	TANGENT	PADIUS	CENTER	(/ CENTER	FB (TESHOF)	æē (∙JMS ·	dF5(BS)
1	28.0	6.0	77.0	22.0	CENTER EF	.OW INTERP	OL TED OF
2	28.0	6.0	57.0		OFMITER SE	L-W- 11.1559	OLATED CO
5	28.0	(0.0	57.0	18.0		1749	
4	28.0	5.0	41,0	72.0	CENTER 3E	LOM INTEFF	OLATED CF
Ġ.	25 0	m .;	(°,	** 11	CIECLE MA	rathe dipe	E

							1
					يت الماسات عباديا الرياب عاماند		
ઠ	28.0	10.0	35.0	18.0	1.007	.921	.000
7	28.0	12.0	37.0	16.0	.988	.909	.000
8	28.0	10.0	37.0	18.0	1.007	.921	. 001
C;	28.0	8.0	37.0	20.0	.977	. 853	.000
10	23.0	12.0	35.0	15.0	1.041	.950	. 000
11	28.0	12.0	37.0	16.0	1.041	.750	. 000
12	28.0	8.0	39.0	20.0	1.076	.927	,000
13	28.0	8.0	35.0	20.0	1.101	.927	.000

F.S. MINIMUM= .966 FOR THE CIRCLE OF CENTER (07.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 15 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHOF)	FS(OMS)	dFS(BS)
1	30.0	10.0	35.0	20.0	.932	.840	. 000
2	30.0	10.0	31.0	20.0	1.702	1.305	.000
T T	30.0	14.0	35.0	16.0	.914	.947	.000
4	30.0	10.0	39.0	20.0	.932	.842	.000
5	30.0	6.0	35.0	24.0	CENTER BE	ELOW INTERP	OLATED CR.
6	30.0	14.0	33.0	16.0	1.012	.926	. 000
7	50.0	16.0	35.0	14.0	, 930	. 870	.000
8	30.0	14.0	37.0	16.0	. 386	.923	.000
9	30.0	12.0	35.0	18.0	,910	.831	.000
10	30.0	16.0	37.0	14.0	.90ი	. 852	.000
11	30.0	14.0	39.0	16.0	.914	.847	.000
12	30.0	12.0	37.0	18.0	. 874	.802	.000
13	30.0	12.0	35.0	18.0	.710	.831	, 6000
14	30.0	12.0	39.0	18.0	.910	.831	.000
15	30.0	10.0	37.0	20.0	.882	.802	.000
16	30.0	14.0	35.0	16.0	.914	.847	.000
17	30.0	14.0	39.0	16.0	.914	.847	.000
18	50.0	10.0	39.0	20.0	.932	.842	.000
19	30.0	10.0	35.0	20.0	.972	.842	, coje

F.S. MINIMUM= .874 FOR THE CIRCLE OF CENTER (37.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 15 feet from centerline

NUMBER	TANGENT	PADIUS	(X) CENTER	Y) CENTER	FS(BISHOP)	F3 OMS.	dFS(BS)
1	55. 0	15.0	75. 0	20.0	.950	1-	, (4)4)
2	05.0	15.0	71.0	20.0	7.175	2.67%	, 0.000
5	75.0	19.0	75.0	16.0	.877	. 75 :	ું વૃત્તાનું વ
4	75.0	15.0	09.0	20.0	. 860	.ais	
5	35.0	11.0	T5.0	24.0	CENTER PEL	THE THEER	JLATED OF
5	75.0	19.0	77.0	14.0	1.175	1.035	្សាក្សាក្
7	75.0	21.0	75.0	10.0	.942	1.010	. Oder
8	05.0	19.0	77.0	· :: . · ·	, 725	्चलप्	_ :::::::
ā	75.0	17.0	35.0	19.0	.942	, ~ 	, (99)e
10	35.0	21.6	77.0	13,6	1 11 10	, ;, ,	, .79°47
11	35. 0	£9.0	Ta.O	15.0	.277	:	, ju
£ C	73.0	17.0	77.0	, ·:	. ens	. ~97.	* 1.*1g*
17	ie. v	21.0	75,0	1.4.	2,2	1.040	
14	25.0	21.0	77. /	14,1		. ~~,~	
15	75.0	17.0	79.0	·3. ·	2 · 45	>	
16	75.0	:	78.0	: 3.	1.0 i.	****	. •*••

permafrost depth 5 feet, 20 feet from centerline

CO	NT	ROL	DAT	ΓA
	1 1		Uni	

NUMBER OF S	PECIFIED CENTERS	Ç
NUMBER OF D	EPTH LIMITING TANGENTS	3
NUMBER OF V	ERTICAL SECTIONS	12
NUMBER OF S	OIL LAYER BOUNDARIES	5
NUMBER OF P	ORE PRESSURE LINES	O
MIMBER OF E	OINTS DEETNING COMESION PROFILE	O

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEOMETRY

SECTIONS	.0	20.0	23.0	25.0	30.0	32.0	42.0	54.0	59.0	61.0	54.0
T. CRACKS	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK						20.0					
BOUNDARY 1	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	05.0	35.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
BOUNDARY 4	35.0	35.O	29.0	30.0	35.0	35.0	J5.0	35.0	30.0	28.0	35.0
BOUNDARY 5	35.0	35.0	35.0	75.0	35.0	35.0	J5.0	35.0	J5.0	J5.0	75.0

REINFORCING FORCE DATA AT 0 LEVEL(s)

SOIL FROPERTIES

LAYER	COHESION	FRISTION ANGLE	DEMETTY
i	, i ()	75.0	175.0
2	1000.0	40.0	120.0
	100.0	.0	105.0
4	1000.0	40.0	120.0

BISHOF MODIFIED AND/OF OFDINARY METHOD OF SITCES

permatrost depth E feet, 20 feet from centerline

NUMBER	I HOUSEN!	RACIUS	r C - Daftraif	171 SHOUGH	e is the smill.	· · · · · · · · · · · · · · · · · · ·	11-21-25
1	28.0	5.0	77.0	22.4	CENTER	DELOW INTERPO	LATED OF
2	29.0	6.0		* * *	-dittek	DET DU TITTER!	M. HTED CH
	28.0	10.0	77.0	:9.0	, [©] 746		, (h)
4	28.0	5.9	41.0	22.0	CENTER	BELOW THEERE	DLATEE CR
~	"C ()	~ ,;		* e	5 1 % CH C	Mitches Automotion of the Con-	-

the contraction of	21-12-51 - 42-12						
				Acres Street Str	فيدين الشاعين فالمادي	يا التاب سايدات:	
6	28.0	10.0	35.0	18.0	1.007	.921	, coc
7	<u>28.€</u>	12.0	37.0	16.0	. 988	୍ ୬୦୭	. 000
io.	D8.0	10.0	39.0	18.0	1.007	.921	, Crisii
7	28.0	8.0	37.0	20.0	.977	.855	, 000
10	78.0	12.0	35.0	16.0	1 , 04 1	950	, Carr
1.1	08.0	12.0	T9. 0	10.0	1.041	.950	" Çuju
12	29.0	8.0	39.0	20,0	1.076	.927	" () () o
13	28.0	9.0	35.0	20.0	1.101	.927	. 001

F.S. MINIMUM- .966 FOR THE CIPCLE OF CENTER (D7.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permatrost depth 5 feet, 20 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y)	CENTER	FS(BISHOP) FS(OMS)	ars(25)
<u>.</u>	30.0	10.0	35.0		20.0	.932	,842	.000
2	J0.0	10.0	31.0		20.0	2.089	1.319	.000
3	30.0	14.0	35.0		16.0	.914	.847	.000
4	30.0	10.0	39.0		20.0	.932	.843	. 000
ទ	30.0	6.0	35.0		24.0	CENTER E	BELOW INTEFF	OLATED CF.
5	30.0	14.9	33.0		16.0	1.249	1.234	.000
7	30.0	16.0	75.0		14.0	, 970	.872	"ÇEĞE
3	30.0	14.0	37.0		16.0	. 886	.823	* 6.600
9	30.0	12.0	35.0		18.0	.910	.831	.000
10	30.0	16.0	37.0		14.0	.906	.852	.000
11	30.0	14.C	39.0		16.0	.914	.847	. 000
12	30.0	12.0	37.0		18.0	.874	.800	.000
13	30.0	12.0	35.0		18.0	.910	.851	" OOC
14	70.0	12.0	39.0		18.0	.910	.831	.000
15	30.0	10.0	37.0		20.0	.887	.802	, રાષ્ટ્રાવટ
16	30.0	14.0	35.0		16.0	.914	.847	.000
1.7	30.0	14.0	39.0		16.0	.914	.847	. 000
18	30.0	10.0	39.0		20.0	.972	.84%	.000
19	70.0	10.0	35.0		20.0	.932	.847	.000

PARAMAN PARAMANAN INNININAN MANAMANAN MANAMANAN

F.S. MINIMUM- .874 FOR THE CIRCLE OF CENTER (37.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 3 feet, 20 feet from centerline

dFS(8S)	P) FS(AKS)	FS(B)SHC	(Y) CENTER	(X) CENTER	RADIUS	TANGENT	NUMBER
, 000	4.062	4.518	20.0	75.0	15.0	35.0	L
, coje	- 596	6.670	200,0	21.0	15.0	J5.0	2
្ត (វិមាស្តិ	4.E71	5.454	16.0	35.0	19.0	75.0	<u> </u>
, (jii) (r	.8:8	. 860	20.0	39.0	15.0	35.0	4
OLATED OF.	BELOW INTER	CEHTER	24.0	35.0	11.0	J5.0	5
" Cajar	,549	. 860	20.0	37.0	15.0	75,0	ć
, didan	797	. 크셔데	186.0	79.0	17.0	35.0	7
, 000	, 3AP	.917	20.0	41	15.0	75.0	8
MLATED OF			22.0	79.0	17.0	35.0	Ġ
" (gir	1 747	1.676	18.0	77.0	17.0	75.0	3 O
្តិ សំរើ្ឌក ស	,781	, 778	16.0	39.0	19.0	77. T.	11
ر فرق الم		. 884	18.0	41.0	17.0	35.0	1 D
	117	7, 740	15.0	27. G	19.0	75.0	13
i deja		, , ,	1 60 40	4. 1	19.0	75.0	14
Çojot	, 358	. 717	20.0	41,0	15.0	75.0	15
, , ,	.749	, 550	2000	T	15.0		16

F.S. MINIMUM= .042 FOR THE CIRCLE OF CENTER . 19.0. (8.0)

```
BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES
Opermafrost depth 5 feet, 20 feet from centerline
CCONTROL DATA
      NUMBER OF SPECIFIED CENTERS
      NUMBER OF DEPTH LIMITING TANGENTS
                                                     3
      NUMBER OF VERTICAL SECTIONS
      NUMBER OF SOIL LAYER BOUNDARIES
      NUMBER OF PORE PRESSURE LINES
      NUMBER OF POINTS DEFINING COHESION PROFILE
OSEISMIC COEFFICIENT S1,S2
                             ==
                                  .00, .00
OUNIT WEIGHT OF WATER
                             ==
                                     62.40
O SEARCH IS BASED ON BISHOP MODIFIED METHOD
 SEARCH STARTS AT CENTER ( 37.0,
                                    22.0) WITH FINAL GRID OF
OALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0,
OGEOMETRY
Ō
    SECTIONS
                   . 0
                       20.0
                            23.0
                                    25.0
                                          30.0
                                                32.0
                                                       42.0
                                                             54.0
                                                                   59.0
                                                                         61.0
                                                                                54.
     T. CRACES
                 20.0
                       20.0
                              20.0
                                    20.0
                                          20.0
                                                20.0
                                                       25.0
                                                             25.0
                                                                    25.0
                                                                          25.0
                                                                                25.4
     W IN CRACK
                 20.0
                       20.0
                              20.0
                                   20.0
                                                             25.0
                                          20.0
                                                20.0
                                                       25.0
                                                                   25.0
                                                                          25.0
                                                                                25.7
                 20.0
     BOUNDARY (
                       20.0
                              20.0
                                   20.0
                                          20.0
                                                20.0
                                                       25.0
                                                             25.0
                                                                    25.0
                                                                          25.0
     BOUNDARY 2
                 25.0
                       25.0
                                                25.0
                              25.0
                                   25.0
                                          25.0
                                                                          25.0
                                                                                25.4
                                                       25.0
                                                             25.0
                                                                   25.0
     BOUNDARY I
                 35.0
                       J5.0
                              25.0
                                   25,€
                                          25.0
                                                25.0
                                                       25.0
                                                             25.0
                                                                          25.0
                                                                    25.0
     BOUNDARY 4
                 35.0
                       35.0
                              28.0
                                    30.0
                                          35.0
                                                35.0
                                                       35.0
                                                             35.0
                                                                    30.0
                                                                          28.0
                                                                                35.0
     POUNDARY 5
                 35.0
                       35.0 35.0
                                   35.0
                                          35.0
                                                 35.0
                                                       35.0
                                                             J5.0
                                                                    35.0
OREINFORCING FORCE DATA AT I LEVEL(s)
     Y==
           20.50
                     NO. OF FORCE POINTS=
            Х
                      FORCE
           33.0
                         .0
           30.0
                     1666.0
            3.0
                     1,666.0
             , O
                         O
           22.00
                     NO. OF FORCE POINTS=
            X
                      FORCE
           J6.0
                      .0
           33.0
                     5000.0
            3.0
                     5000.0
                         . 0
           24.06
                     NO. OF FORCE POINTS=
             Х
                      FORCE
                         .0
           40.0
                     5000.0
           37.O
            3.0
                     5000,0
                         .0
OSCIL PROPERTIES
       LAYER
                      COHESION
                                  FRICTION ANGLE
                                                      DEMS!T/
        1
                        311
                                      35,0
                      1000.0
                                       40.0
                                                      120.0
                      100,00
                                        . . .
                                                      105,0
                      10000.0
                                       30.0
                                                      30000
        BISHOP MODIFIED AND/OP ORGINARY METHOD OF BLICES
Opermafrost depth 5 feet. 20 feet from centerline
ONUMBER TANGENT PADIUS (X) CENTER (Y) CENTER
                                                     TO CEISHOFI
                                                                  FS (CMS)
                                                                             iF3.EE
                                77.0
33.0
    1
          28.0
                    8.0
                                            22.0
                                                      CENTER BELOW INTERPOLATED /:
    7
          28.0
                                             22.0
                    6.0
                                                       CENTER PELLOW INTERFOLATED (
```

		10.0	37.0	18.0	
4	28.0	4.0	41.0	22.0	CENTER BELOW INTERPOLATED C
ទ	28.0	2.0	37.0	26.0	CIRCLE OUTSIDE SLOPE
6	28.0	10.0	35.0 37.0 39.0 37.0	18.0	7.493 3.378 0.45 0.50 0.500 0.378 0.378 0.47 0.378 0.47 0.378 0.47 0.47 0.378 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47
/	785 - U	12.0	37.0	16.0	0.502
8	28.0	10.0	39.0	18.0	ଅ.494 ଅ.378 ଅ.୬୯ 🔀
Ģ	28.0	8.0	37.0	20.0	2.708 2.794 1.91 8 3.197 7.023 2.03
iÖ	28.0	9.0	35.O	20.0	3,197 3,023 2,0° 🖟
11	29,0	8.0	39.0	20.0	3.166 0.017 2.09 🖺
	28.0	6.0	37.0	22.0	CENTER BELOW INTERPOLATED C
		10.0	35.0	18.0	2.493 3.378 2.45
		10.0	79.0	18.0	3.494 3.378 2.45
15	28.0	6.0	70 A	40.Q	CENTER RELOW INTERPOLATED /
1.6		6.0	27.50 27.50	22.0	CENTER DELOW INTERPOLATED C
			HE CIRCLE OF	menter / :	TT : OA A
e e e e e e e e e e e e e e e e e e e		MODIETED AN	D/OR ORDINARY	METHOD OF	
-			D/OR ORDINARY O feet from c		i Nell
ONLIMBER	TANGENT	SANTUS	(() CENTER (Y) CENTER	FS(BISHOP) FS(CMS) dFS(ES
ALINER HERE	randura	11/10100			
1	50.0	8.0	35.0	22.0	CENTER BELOW INTERPOLATED OF
		8.0		aa c	CENTES SELON INTESSON ATES C.
<u> </u>		12.0	35.0	18.0	2.379 2.300 1.46 CENTER BELOW INTERPOLATED OF CIPCLE OUTSIDE SLOPE 2.687 2.583 1.64 2.563 2.495 1.64F 2.291 2.218 1.41 2.084 1.995 1.152 3.475 2
<u>.</u>		8.0	79.0	20.0	CENTER RELOW INTERPOLATED CLA
E7.	30.0	4.0	77.0	24.0	CIPCLE ULITOIDE GLOBE
5 6	70.0	7.U	200.0	20.0	0 407 0 507 1 44 B
Ω →	70.0	12.0 14.0 12.0	20 € //	10.0	0.5057 2.053 1.04 1
7	30.Q	14.0	35.0	16.0	2.563 2.475 1.649 (
8	30.0	12.0	37.0	18.0	2.291 2.218 1.41
9	30.0	10.0	35.0	20.0	2.084 1.995 1.551 🐧
10	Su.ŭ	10.0	را وان و		L.4/G L.04/NEG.KEG.GI X
<u>1</u> 1	J0.0	10.0	37.0	20.0	1.980 1.899 1.095⅓
		8.0	35.O		CENTER BELOW INTERPOLATED OF 🕅
		12.0			
		10.0			2.291 2.218 1.41 4 2.084 1.995 1.151
		8.0	3/.0	Marie O	CENTER BELOW INTERPOLATED OF
16	30.0	12.0	J5.0	18.0	2.379 2.300 1.464
17	50.0	12.0	39.0	18.0	2.379
1.6	TO.0	12.0 8.0 8.0	79.0	22.0	CENTER BELOW INTEFFOLATED C: 🖔
19	30.0	8.0 8.0	75.0	22.0	2.379 2.300 1.464 2.379 2.300 1.467 CENTER BELOW INTERPOLATED CENTER BELOW INTERPOLATED CEN
OF.S M	-MUMIN		THE CIRCLE OF	CENTER (37.0, 20.0)
÷	SISHUL	MODIFIED AN	ID/OF ORDINARY	V METHOD OF	
-			20 feet from o		Tr Control of the Con
					F3.BISHOP) F3.QMS) dFS(BS.🖔
					\$ \$
1	35.0	17.0	35.0	22.0	,
0 0	35.0	13.0	31.0	22.0	CENTER BELOW INTERFOLATED OF
	T5.0	17.0	35. 0	18.0	5.440 4.951 .61 🖟
4	75.0	15.0	39.0	22.0	CENTER BELOW INTERFOLATED O'
5	35.0	9.0	75,0	26.0	CENTER BELOW RIGHT INTERSEC 🤾
5	35.0	17.0	55.o	19.0	7.086 6.374 .62 }
7	35.0	19.0	75.0	16.0	5.780 S.301 .75 &
Ś	75.0	17.0	37.0	18.0	
. 7	75.9	15.0	75.0	mar.	rs ·
10	75.0	19.0	T7.0	16.0	4.084 I.874 .TI
11	15.0	17.4	79.C	18.0	.470 1.419 .65 🚷
1.2	55.0	15.0	37.0	20.0	L.39A 1.36B .4J 🍖
1.77	35.0	15.0	75. 0	204.0	4.777 A.504 .45 💃
أتخ	35.0	15.0	39.O	20.0	1.003 1.055 1.44 🛓
15	75.0	17.0	37.G	year year.	CENTER BELOW INTERPOLATED (
16	35.0	17.0	ជីគ. 0	18.0	5.442 1.951 .61 }
1.7	75.0	17.0	70, Q	18.0	1,474 1,429 1,47 (
19	35.0	15.0	20.00 20.00	1 factor of the control of the contr	CENTER PELCH INTERPOLATED 7 5
1 ©	255.0		الدائد من الأدار من المنظمة المن المن المنظمة	TO TO SEE	ه
•			THE CIRCLE OF		
177.3.11	= אונווווגייין	ILITO PUR	int blicht tir	SEPTER !	The Control of the Co
					•

permafrost depth 5 feet, 20 feet from centerline

CUNIT	ROL	DATA	

NUMBER	OF	SPECIFIED CENTERS	O
NUMBER	OF	DEPTH LIMITING TANGENTS	3
NUMBER	OF	VERTICAL SECTIONS	12
NUMBER	OF	SOIL LAYER BOUNDARIES	5
NUMBER	OF	PORE PRESSURE LINES	0
NUMBER	OF	FOINTS DEFINING COHESION PROFILE	0

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEOMETRY

SECTIONS	.0	20.0	25.0	25.0	30.0	52. O	40.0	54.0	59.0	61.0	64.Q
T. CPACKS	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	23.0	25.0
W IN CRACK	20.0	20,0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	35.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
BOUNDARY 4	35.0	35.0	28.0	30.0	35.0	35.0	35.0	35.0	50.0	28.0	35.0
BOUNDARY 5	35.0	35.0	75.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0

REINFORCING FORCE DATA AT 4 LEVEL(s)

Υ=	20.50 X 33.0 30.0 7.0	NO. OF FORCE POINTS= FORCE .0 1666.0 1666.0	4
γ=	22.00 X 76.0 33.0 0.0	NO. OF FORCE POINTS= FORCE .0 5000.0 5000.0	4
Y=	24.00 X 40.0 37.0 3.0 .0	NO. OF FORCE POINTS= FORCE .0 5000.0 5000.0	4

Y==	25.00	NO. OF	FORCE	POINTS=	4
	X	FORCE			
	42.0	. O			
	39.0	5000.0			
	5.6	3000.0			
	. 0	.0			

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DENSITY
1	.0	55. 0	135.0
2	1000.0	40.0	120.0
3	100.0	.0	105.0
4	1000.0	40.0	120.0

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 20 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHO	P) FS(OMS)	dFS(BS)
1	28.0	5.0	37.0	22.0	CENTER	BELOW INTERF	POLATED OR
Ξ	28.0	6.0	33.0	22.0	CENTER	BELOW INTER	POLATED CR/
3	28.0	10.0	37.0	18.0	4.778	4.679	J.811
4	28.0	6.0	41.0	22.0	CENTER	BELOW INTER	OLATED CRA
5	28.0	2.0	37.0	26.0	DIRCLE	OUTSIDE SLOP	÷E
6	28.0	10.0	35.0	18.0	5.081	4.965	4.044
7	28.0	12.0	37.0	16.0	4.962	4.883	3.974
8	28.0	10.0	39.0	18.0	5.081	4.965	4.045
9	28.0	8.0	37.0	20.0	4.473	4.349	J.496
10	28.0	8.0	35.0	20.0	4.897	4.722	3.795
11	28.0	8.0	39.0	20.0	4.876	4.727	3.799
12	28.0	6.0	37.0	22.0	CENTER	BELOW INTER	POLATED CRE
13	28.0	10.0	35.0	18.0	5.081	4.965	4.044
14	28.0	10.0	39.0	18.0	5.081	4.965	4.045
15	28.0	6.0	39.0	22.0	CENTER	BELOW INTER	FOLATED CRE
16	28.0	6.0	35. 0	22.0	CENTER	BELOW INTER	POLATED CR:

F.S. MINIMUM= 4.473 FOR THE CIRCLE OF CENTER (37.0, 20.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 20 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHO	P) FS(OMS)	dFS(BS)
i	30.0	8.0	35.0	22.0	CENTER	BELOW INTERF	OLATED OF.
2	30.0	8.0	31.0	22.0	CENTER	SELOW INTESP	OLATED CR
3	30.0	12.0	75.0	18.0	W. U18	J.249	2.418
4	30.0	8.0	39.0	22,6	CENTER	RELOW CHIEFE	OLATED CF.
5	30.0	4.0	75.0	26.0	CIRCLE	OUTSIDE SLOP	ΞΕ
4	70.0	12.0	33.0	:8.0	7.750	7. A49	1.715
7	50.0	14.0	35.0	16.0	3.520	3,452	2.606
8	7010	12.0	37.0	18.0	7. 20%	77. 17.4	
Ģ	700 - 1	10.0	75.9	20.0	5.019	2.929	೩.೦೯ಎ
10	50.0	10.0	JU.0	20.0	J.574	3. 147H	EG.RESIST.
11	00.0	10.0	37.0	20,0	21.865	2. 199	1.981
12	30.0	8.0	55.0	7 - 1	CENTER	BELOW INTERS	POLATED OF
15	10.0	12.0	57.0	18.0	7.006	7.174	2.332
14	50.0	10.0	39.0	20,0	5.019	2,929	೨.06√
15	5000	8.0	57. 0	22.0	CELLIER	BELOW INTERP	OLATED OF
15	<u> </u>	to.o	ಥಾತ್ಮ ಅ	18,0	7,529	0.049	2.418

1/ 50.0 12.0 39.0 18.0 3.328 3.249 2.417 18 70.0 8.0 39.0 22.0 CENTER BELOW INTERPOLATED CF 19 30.0 8.0 35.0 22.0 CENTER BELOW INTERPOLATED CF

F.S. MINIMUM= 2.869 FOR THE CIRCLE OF CENTER (07.0, 20.0)

BISHOP MODIFIER AND/OR ORDINARY METHOD OF SLICES

permainost depth 5 feet, 20 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHOP	FS(OMS)	dFS(B9)
1	35.9	13.0	35.0	22.0	CENTER B	ELOW INTER	OLATED OF
2	35.0	13.0	31.0	22.0	CENTER BE	ELOW INTERP	OLATED OF
3	35.0	17.0	35.0	18.0	5.838	5.347	1.008
4	35.0	13.0	39.0	22.0	CENTER BE	ELOW INTERF	POLATED OR !
5	35.0	9.0	75.0	26.0	CENTER B!	ELOW RIGHT	INTERSECT
చ	35.0	17.0	53.0	18.0	7.489	6.778	1.027
7	35.0	19.0	75.0	16.0	6.202	5.722	1.148
8	75.0	17.0	37.0	18.0	2.656	2.763	1.020
7	35.0	15.0	35.0	20.0	5.333	4.857	. 795
10	J5.0	19.0	37.0	16.0	4.511	4.301	1.162
11	35.0	17.0	39.0	18.0	1.882	1.837	1,009
12	35.0	15.0	37.0	20.0	1.654	1.644	.795
13	35.0	15.0	35.0	20.0	5,000	4.857	.795
14	35.0	15.0	39.0	20.0	1.671	1.628	.810
15	35.0	13.0	37.0	22.0	CENTER BI	ELOW INTER	POLATED CR.
1.5	35.0	17.0	75.0	18.0	5.838	5.347	1.008
17	35.0	17.0	39.0	18.0	1.882	1.837	1.009
12	35.0	13.0	39.0	22.0	CENTER BE	ELOW INTERF	POLATED CRA
19	35.0	13.0	35.0	22.0	CENTER B		POLATED CRE

F.S. MINIMUM= 1.654 FOR THE CIRCLE OF CENTER (77.0, 20.0)

APPENDIX B

RESULTS OF STABGM ANALYSIS

Figure 2.5 depicts the conditions of the revised STABGM analysis. Detailed results of the revised analysis are contained herein.

Analysis with no layers of reinforcement display the critical factor of safety exists at a depth of 10 feet below the embankment/foundation soil interface. Analyses with one layer of reinforcement are enclosed. Strengths of 5,000, 7,000, 9,000, and 8,000 pounds per foot were analyzed to obtain a minimum factor of safety of 1.0 at a strength of 8,000 pounds per foot. Analyses with two and three layers of reinforcement are also enclosed. Internal stability analyses with none, one, two, and three layers of reinforcement are enclosed for comparison with external stability analyses.

permafrost depth 7 feet, 10 feet from centerline

20	k:	T =	· 🔿	•	Π.	۸-	ΓA	
	N	! "	U.	i	U	н	I 6-1	

NUMBER OF	SPECIFIED CENTERS	Q
NUMBER OF	DEPTH LIMITING TANGENTS	-3
NUMBER OF	VERTICAL SECTIONS	12
NUMBER OF	SOIL LAYER BOUNDARIES	5
NUMBER OF	PORE PRESSURE LINES	O
NUMBER OF	POINTS DEFINING COHESION PROFILE	Q

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED O' BISHOP MODIFIED METHOD

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEOMETRY

gram STABR Version 1.94 (MS-DOS)
PISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES mafrost depth 7 feet, 10 feet from centerline
PISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES mafrost depth 7 feet, 10 feet from centerline TROL DATA NUMBER OF SPECIFIED CENTERS NUMBER OF DEPTH LIMITING TANGENTS NUMBER OF VERTICAL SECTIONS NUMBER OF SOIL LAYER BOUNDARIES NUMBER OF PORE PRESSURE LINES NUMBER OF POINTS DEFINING COHESION PROFILE SMIC COEFFICIENT S1,S2 = .00, .00 T WEIGHT OF WATER = 62.40 ARCH IS BASED 5 BISHOP MODIFIED METHOD SCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0
SMIC COEFFICIENT S1,S2 = .00, .00
T WEIGHT OF WATER = 62.40
ARCH IS BASED O' BISHOP MODIFIED METHOD
SCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GMID OF 2.0
CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,
METRY
SECTIONS .0 10.0 13.0 15.0 20.0 32.0 42.0 64.0 69.0 71.0 74.0
T. CRACKS 18.0 18.0 18.0 18.0 18.0 18.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 WIN CRACK 18.0 18.0 18.0 18.0 18.0 18.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25

REINFORCING FORCE DATA AT 0 LEVEL(s)

SOIL PROPERTIES

LAYER	COHESION	FFICTION ANGLE	YT12M3D
1	.0	05.0	175.0
2	1000.0	40.0	120.0
7	100.0	.0	105.0
4	1000.0	40.0	120.0

PISHOP MODIFIED AND/OR OPDINARY METHOD OF BLICES

permainost depth 7 feet, 10 feet from centerline

HUMBER	TANGENT	RADIUS	·X) CENTER	(Y) CENTER	FS (B (SHOT)	FR/OMS;	dFS(BS)
1	08.0	6.0	37.0	22.0	DELLTER BE	LOW INTERP	DLATED OF
3	28.0	6.0	27.0	22,0	CEHTER BE	LOW INTERP	OLATED OR
	28.0	10.0	37.0	18.0	. 710	647	$\mathcal{O}(0)$
4	28.0	6.0	41.0	25 CT 1 1 1	CENTER BF	OW JAHERE	CLATED OF
ទ	28.0	2.0	37.0	26.**	CIPCLE OU	TSIDE SLOP	-
5	28.0	10.0	75.0	L8.0	. 771	.67°	, Orien
→	28.0	12.0	27.0	16.0	.710	.481	, OCO:
8	28.0	10.6	79.0	18.0	. T7C	.679	, Origina

4	28.0	8.0	37.0	20.0	CENTER BELOW	INTERPOLATED CR
10	28.0	12.0	35.0	15.0	.779	.710 .000
11	28.0	12.0	39.0	16.0	.779	,710 LOOG
1.2	28.0	8.0	39.0	20.0	CENTER BELOW	INTERPOLATED CF
13	28.0	8.0	J5.0	20.0	CENTER BELOW	INTERFOLATED OF

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

NUMBER:	TANGENT	RADIUS	OO CENTER	(Y) CENTER	FS(BISHOF	F) FS	(OMS)	dF9 (B	s)
1	30.0	10 0	35.0	20.0	CENTER E	BELOW	INTERPOL	_ATED	CF.
2	30.0	10.0	31.0	20.0	CENTER E		INTERPOL		L L
3	30.0	14.0	J5.0	16.0	. 648		.616	. 0	oo j
4	30.0	10.0	39.0	20.0	CENTER E	BELOW	INTERPOL	ATED	OR.
5	30.0	6.0	35.0	24.0	CENTER E	BELOW	INTERPOL	LATED	CR/
6	30.0	14.0	33.0	16.0	,739		.670	.0	000
- ,	30.0	16.0	35.0	14.0	. 582		. 642	. 0	000
8	J0.0	14.0	37.0	16.0	. 546		.600	. 0	OO
ዎ	30.0	12.0	35.0	18.0	.660		.600	. 0	000
10	30.0	16.0	37.0	14.0	. 665		.628	.0	u
11	30.U	14.0	39.0	16.0	. 668		.716	. 5	$\langle \hat{Q} \hat{Q} \rangle$
12	30.0	12.0	37.0	18.0	. 636		.580	. 0	000
13	30.0	12.0	35.0	18.0	. 563		.600	. 0	000
14	30.0	12.0	39.0	18.0	.663		.600	. 0	900
15	30.0	10.0	37.0	20.0	CENTER A	BELOW	INTERPOL	LATED	CRE
16	30.0	14.0	35.0	16.0	. 468		.616	.0	000
17	30.0	14.0	39.0	16.0	. 668		.616	. 0	000
18	30.0	10.0	39.0	20.0		BELOW	INTERPOL	LATED	CR4
19	30.0	10.0	35.0	20.0	CENTER H	PELOW	INTERPO	LATED	050

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

F.S. MIMIMUM= 1.590 FOR THE CIPCLE OF SENTER (77.0, 18.0)

11	28.0	12.0	39.0 70.0	16.0	.//Y	INTERPOLATED CF	
13 13	28.0 28.0	8.0 8.0	39.0 35.0	20.0 20.0		INTERFOLATED OF	
1.2	_0.V	0.0	_1.2 is 1.7	. No. 4 12	CENTER DELOW	THICK OFFICE OF	14
Е С МТ	NTMIM=	710 FOR	THE CIRCLE OF	F CENTER (D'	7 A 10 A)		
الدنة ولسفا	(41110)11-	/ (Q/)	THE SELECTION COL	Security ()	and		
							<u> </u>
	BISHOF M	ODIFIED A	ND/OR ORDINAR	RY METHOD OF S	RLICES		777
				The state of the s			-33
oermafr	ost depth	7 feet.	10 feet from	centerline			\mathcal{H}
•		,					9,
NUMBER:	TANGENT	RADIUS	CO CENTER	(Y) CENTER	FS(BISHOF) FS	a(oms) dfs(BS)	131
							77
1	30.0	10 0	35.0	20.0	CENTER PELOW	INTERPOLATED CF INTERPOLATED CS .616 .000 INTERPOLATED CS INTERPOLATED CS .670 .000	
2	30.0	10.0	31.0	20.0	CENTER BELOW	INTERPOLATED CR	. 77
3	30.0	14.0	35.0	16.0	. 668	.616 .000	$-\mathcal{B}_{r}$
4	30.0	10.0	39.0	20.0	CENTER BELOW	INTERPOLATED OF	
5	30.0	6.0	35.0	24.0	CENTER BELOW	INTERPOLATED CR	
6	30.0	14.0	33.0	16.0	, 739	.670 .000	
- ,			35.0		. 582	.642 .000	,
8	70.0		37.0	16.0	. 546	.600 .000	
9			35.0	18.0	447	. 400 - 000	
10	30.0	16.0	37.0	14.0	445	A28 .000	
11	30.0	14.0	39.0	16.0	240	/1/4 000	
12	30.0	12.0	37.0	10.0	.000	586 000	
13	30.0	12.0	35.0	10.0	. 000 447	400 000	
		12.0	39.0	10.0	.000	.000	
14	30.0	10.0	37.0	18.9	. DOJ	.642 .000 .600 .000 .628 .000 .716 .000 .580 .000 .600 .000 .500 .000	<u> (6</u>
	30.0	19.0	37.0	30.0	CENTER RELIA	INTERPULATED CR	11 (
						•	W-
				16.0		.414 .000	
				20.0	CENTER BELOW	INTERPOLATED OF	34 gr.
19	30.0	10.0	35.0	20.0	CENTER PELOW	INTERPOLATED CO	7.7
							- E
F.S. MI	=MUMINI	.536 FOR	THE CIRCLE O	F CENTER (3	7.0, 18.0)		15
							<u> </u>
	BISHOP N	10DIFIED (AND/OR ORDINA	RY METHOD OF	SLICES		norsh tuttur
							E
permafr	ost depth	n 7 feet,	10 feet from	centerline			8
							N.
NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(P!SHOP) F	S:OMS: dFS:3S.	1 3
							A.
1	75.°	15.0	J5.0	20.0		INTERPOLATED CR	
2	75.0	15.0	51.0	20.0		INTERPOLATED C	
3	35.0	19.0	75.0	16.0	.601	.555 .000	
4	75.¢	15.0	39.0	20.0		INTERPOLATED C	
5	DE LO	11.0	J5.0	24.0	CENTER BELOW	INTERFOLATED OF	
6	J5.0	19.0	37.0	15.0	. 408	.589 .00	
7	75.0	21.0	J5.0	10.0	.60%	.370 .00	. ,
8	35.0	19.0	77.0	16.0	.591	559 .00	$\gamma = \mathcal{J}_{1}$
9	75.0	17.0	35.0	(8.9	. 505	.5a7 .000	
10	75.0	21.0	77.0	14.0	. 59å	.545 .000	
11	75.0	19.0	79.0	15.0	.501	.560 .00	
12	75.5	1 7.0	77.0	19.0	, 595	.559 .00	· /\
13	35.o	21.0	75.0	14.0	.605	.572 .00	
14	75.6	21.0	20.0	14.0	.జాలు ఎజాల్ఫ్	.572 .00	
15	75.0	17.0	2670	18.0			74
15	25.0	17.0			. 505 7.5	.00 .000 .000	
10							
	to sail a fair	1.7 4 5	75.6	18.0	. 605	a artal / • Na ^N a ^N	•

permafrost depth 7 feet. 10 feet from centerline

	701			 ** *	4T /	~
1	4 44	•••	-	1 16.		<u></u>

NUMBER OF SPECIFIED CENTERS

NUMBER OF DEPTH LIMITING TANGENTS

NUMBER OF VERTICAL SECTIONS

NUMBER OF SOIL LAYER BOUNDARIES

NUMBER OF PORE PRESSURE LINES

NUMBER OF POINTS DEFINING COHESION PROFILE

O

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEUMETRY

CECTIONS

3EC 10N3	.0	10.0	10.0	13.0	20.0	3Z.0	42.0	64.U	09.U	71.0	74.0
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.9	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	19.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	35.0	23.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
BOUNDARY 4	35.0	35.0	28.0	30.0	35.0	35.0	35.0	35.0	50.0	28.O	35.0
BOUNDARY 5	75.0	35.0	75.0	35.0	35.0	75.0	75.0	35.0	25.0	J5.0	J5.0

をある。 では、 のでは、 のでは、

ではないでは、おは自然のなどなると自然を行っている。これは自然と

REINFORCING FORCE DATA AT 1_LEVEL(s)

Y==	25.00	NO. OF	FORCL	201M13-	4
	X	FORCE			
	42.0	.0			
	39.0	5000.0			
	5.0	3000.0			
	, O	. •			

SOIL PROPERTIES

LAYER	COHESION	FFICTION ANGLE	DEMOITY
j	, Ç	75.0	175.0
2	1900.0	40.0	120.0
-	100.0	. 🗘	105.0
1	1000.0	40.0	123.0

BIGHOF MODIFIED AND/OF CEDIMARY METHOD OF STICES

permafrost dopih 7 feet, 10 feet from contacting

NUMBER TAMOETT FADIUS IN CENTER IN CENTER TO RECEDE FSIGHTS - design

B.C							•
1	26.0	٥.0	37.0	22.0	CENTER	BELOW INTERPO	DLATED OF
2	28.0	6.0	22.0	22.0	CENTER	BELOW INTERPO	DLATED OF
3	28.0	10.0	37.0	13.0	1.700	1.527	.784
Ą	29.0	a. 0	41.0	22.0	CENTER	BELOW INTERPO	DLATED OF
5	28.0	2.0	37.0	26.0	CIRCLE	OUTSIDE SLOPE	<u> </u>
4	29.0	10.0	35.0	18.0	1.911	1.718	1.00%
7	79.0	12.0	77 0	16.0	1.680	1.422	. 9/PC
8	28.0	10.0	<u> </u>	18.0	1.1311	1.713	1,077
9	28.0	8.0		20.0	CENTER	BELOW INTERPO	DLATED OF
10	18.0	12.0	35.0	16.0	t., 758	1.688	.975
11	28.O	14.0	37.0	14.0	1.685	1.641	.914
12	28.0	12.0	39.0	16.0	1.758	1.588	.979
13	28.0	14.0	35.0	14.0	1.747	1.095	.944
14	28.0	14.0	39.0	14.0	1.747	1.695	. 94A
15	28.0	10.0	39.0	18.0	1.811	1.718	1.039
16	28.0	10.0	35.0	18.0	1.811	1.718	1.039

F.S. MINIMUM= 1.680 FOR THE CIRCLE OF CENTER (37.0, 16.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 5 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FE(BISHO	P) FS(GMS)	oF8(89)
1	70.0	12.0	35.0	18.0	1.705	1.243	.645
<u> </u>	50.0	12.0	31.0	18.0	1,842	1.699NE	G.RESIST.
3	30.0	16.0	35.0	14.0	1.317	1.277	.635 🤾
4	56.0	12.0	39.0	18.0	1.305	1.243	.64% 8
5	30.0	2.0	35.0	22.0	CENTER :	BELOW INTERF	OLATED CR/:
ద	30.0	12.0	33.0	18.0	1.474	1.387	.717
7	30.0	10.0	35.0	20.0	CENTER	BELOW INTERF	,
8	J6.0	14.0	33.0	16.0	1.433	1.364	.694
Q	30.0	14.0	37.0	15.0	1.268	1.222	.421
10	30.0	19.0	37.0	20.0	CENTER	BELOW INTERS	POLATED CR.
11	50.0	10.0	33.0	20.0	CENTER	BELOW INTERF	OLATED CR/
12	50.0	16.0	37.0	14.0	1.286	1.249	.621
17	30.0	14.0	39.0	16.0	1.30a	1.254	.633
14	30.0	16.0	35.0	14.0	1,317	1,277	. 635
15	30.0	16.0	39.0	14.0	1.317	1.277	.635
16	50.0	12.0	39.0	18.0	1.305	1.245	.64J
17	30.0	12.0	35.0	18.0	1.305	1.143	.643

F.S. MINIMUM= 1.068 FOR THE CIRCLE OF CENTER (07.0, 16.0)

BISHOP MODIFIED AND/OR OPDINARY METHOD OF SLICES

permafrost depth E feet, 10 feet from center; no

WLMBEP	TAMBENT	Sâu IUS	(X) CENTER	Y) CENTER	F5/PIS-OF)	55.0MS)	dF9(BS)
1.	75.0	17.0	35.0	18.0	. <u>6</u> 20	,GED	.295
2	75.0	17.0	31.9	13.0	·	. 57 !	
7	72.3	21.0	TT.0	14 3	, 7 <u>7</u> ,	. = 30	.716
-1	35.0	17.0	79.0	19.4	390	, 25%	. 185
5	73.0	17.0	73.0	22, 1			OLATED CA
5	75.4	(7.)	 . ;	g :	5.75	, 377	, 25,
7	73.0	19.0	78.0	j <u>i.</u>	, c	. 8:19	*****
3	75.0	17.0	41.0	(9.0	, 711	. 207	, 29g
7	73.0	[5.0	ŢŸ., Ċ	20		ON PATER	
19	75.0	i". O	75.0	13.0	. 397	.551	.195
11	75.0	10.0	77.0	16.0	307	. 953	. 200
12	53. }	15.0	37.0	20.1	CENTER REL	OW INTERF	OLATED CT
ιī	75.0	19.0	-5.0	16.0	. 2013	.349	. 107

14 35.0 19.0 39.0 16.0 .904 .869 .30T 15 35.0 15.0 39.0 20.0 CENTER BELOW INTERPOLATED CF 16 35.0 15.0 35.0 20.0 CENTER BELOW INTERPOLATED CF

F.S. MINIMUM= .875 FOR THE CIRCLE OF CENTER (37.0, 18.0)

parmafrost depth 7 feet. 10 feet from centerline

CONTROL DATA

NUMBER OF SPECIFIED CENTERS 0
NUMBER OF DEPTH LIMITING TANGENTS 1
NUMBER OF VERTICAL SECTIONS 12
NUMBER OF SOIL LAYER BOUNDARIES 5
NUMBER OF PORE PRESSURE LINES 0
NUMBER OF POINTS DEFINING COHESION PROFILE 0

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 35.0,

GEOMETRY

SEC: IONS	.0	10.0	15.0	15.0	20.0	32.0	42.U	64.0	57.0	/1.C	74.U
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1											
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	ن اللك	15.0	25.0	25.0
BOUNDARY 3	35.0	35.0	25.0	25.)	25.0	25.0	25.0		35.0	25.0	
BOUNDARY 4											35.0
BOUNDARY 5	33.0	35.0	35.0	35.0	75.0	75.0	15.0	JE.O	35.0	35.0	35.0

REINFORCING FORCE DATA AT 1 LEVEL /

Y=	25.00	NO. OF	FORCE	#O}∈TS=	4
	χ	FORCE			
	42.0	.0			
	I9.0	7000.0			
	3.0	7000.0			
	, O	, Çt			

BOIL PROFERTIES

LAYER	COHESION	FRISTION ANGLE	PTIENGC
1.	, 0	I5.0	
~	1000.0	4Ç.Ç	120.0
Ţ	100.0	, O	包含.0
4	1000.0	40,0	120.0

BISHOP MODIFIED AND/OR ORTINARY METHOD OF SLICES

permafrost depth 7 feet, 10 feet from tenterline

MUMBER TANGENT PADIUS (() CENTER (Y) CENTER FS 813MOF: FS/CMS) dF3/83

								- 1
1	35.0	13.0	37.0	22.0	CENTER	BELOW	INTERPOLATED OF	
2	35.0	13.0	33.0	20.0	CENTER	RELOW	INTERPOLATED OF	
3	35.0	17.0	37.0	18.0	.987		.95! .397	
4	35.0	10.0	41.C	22.6	CENTER	BELOW	INTERFOLATED CR	
5	35.0	9.0	37.0	25.0	CENTER	BELOW	RIGHT INTERSECT	•
6	75.0	17.0	35.0	18.0	1,00%		.966 .393	:
7	35.O	19.0	57.0	16.0	1.012		.978 .417	
3	75.0	17.0	39.0	18.0	1,000		.946 .399	: '
5	35.0	15.0	37.0	20.0	CENTER	BELOW	INTERPOLATED OF	
10	35.0	19.0	75.0	16.0	1.026		,990 .45	
11	35.0	19.0	39. 0	16.0	1.026		.590 .424	
12	J5.0	15.0	39.0	20.0	CENTER	BELOW	INTERPOLATED OF	
13	35.°	15.0	35.0	20.0	CENTER		INTERPOLATED OF	

原である。 一般は大きない。 一般は大きない。 一般によっている。 一般になる。 一を、 一を、 一を、 一を、 一を、

F.S. MINIMUM= .987 FOR THE CIRCLE OF CENTER (07.0, (8.0)

permafrost depth 7 feet, 10 feet from centerline

CONTROL DATA

NUMBER OF SPECIFIED CENTERS O
NUMBER OF DEPTH LIMITING TANGENTS 1
NUMBER OF VERTICAL SECTIONS 12
NUMBER OF SOIL LAYER BOUNDARIES 5
NUMBER OF PORE PRESSURE LINES 0
NUMBER OF POINTS DEFINING COHESION PROFILE 0

SEISMIC COEFFICIENT S1,82 = .00, .00

UNIA WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 35.0,

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.0	64.0	69.0	71.0	74.0
T. CRACHS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACE	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	75.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
BOUNDARY 4	35.0	35.0	28.0	30.0	75.0	J5.0	75.0	35.O	30.0	28.O	J5.0
POUNDARY 5	35.0	35.0	35. C	35.0	75.0	35.0	35.0	355. ()	35.0	35.0	35.0

別の行うなど、自己などれるなど

でいいのはないはない。これできないのでは「

REINFORCING FORCE DATA AT 1 LEVEL(s)

Υ=	25.00	NO. OF	FORCE	POINTS=	1
	X	FORCE			
	40.0	.0			
	39.0	9000.0			
	5.0	9000.0			
	, Cr	. C			

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DEMSITY
1	, O	35. 0	175.0
	10(0).0	$a \circ \varphi \circ \varphi$	120.0
	100.0	" Ci	100040
4	1000.0	40.0	120.0

BISHOP MODIFIED AND/OR OPDINGRY METHOD OF SLICES

permatrical depth 7 feet, 10 feet from centerline

NUMBER TANGENT FIDIUS (X) CENTER (Y) CENTER (S) PISHOP; F3(OMS) dFS(DS)

							i
1	والوالية في	12.0	37.0	22.0	CENTER	BELOW INTERP	OLATED OF
2	35.0	13.0	33.0	22.0	CENTER	BELOW INTERP	OLATED OF
=	35.0	17.0	37.0	18.0	1.099	1.063	.505
4	35.0	13.0	41.0	22.0	CENTER	BELOW INTERP	POLATED OF
5	35.0	9.C	37.0	26.0	CENTER	DELOW RIGHT	INTERSECT
6	35.0	17.0	TELO	18.0	1.117	1.080	.517
7	35.0	19.0	37.0	lavo	1.177	1,064	. ಇಗಳ
8	J5.0	17.0	79.6	18.0	1.117	1,680	127 1 T
9	35.0	15.0	37.0	20.0	CENTER	BELOW INTERI	POLATED OF
10	35.0	19.0	75.0	16.0	1.14	1.111	.544
11	35.0	19.0	79.0	16.0	1.14'	1.111	. 54:
12	35.0	15.0	39,0	Qü, c	CENTER	SELOW INTER	POLATED OF
17	35.0	15.0	35.0	20.0	CENTER	BELOW INTER	POLATED OF

原文がある。 「大きななない。」では、「大きななない。 「大きななない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「大きなない。 「大きなない。」では、「ない。」では、「ない、これない。」では、「ない、「ない。」では、「ない、」でいい、「ない、」では、「ない、これない。」では、「ない、これない、これない、これない、これない、これない、これない、これない。

F.S. MINIMUM= 1.099 FOR THE CIRCLE OF CENTER (37.0, 18.0)

permafrost depth 7 fact, 10 feet from centerline

	JTE	DATA

SEISMIC COEFFICIENT S1.S2 .00, .00

UNIT WEIGHT OF WATER 62.40

ALL CIRCLES TANGENT TO DEFTH, 35.0,

GEOMETRY

gram STABR Vers:	ion 2.84 (MS-)	DOS)				88
BISHOP MODIFI	SD AND/UR ORD	IMARY METHOD	OF SLICES			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
mafrost depth 7 fe	et, 10 feet f	rom centerli	ne) Se
TROL DATA NUMBER OF SPECIF NUMBER OF DEPTH NUMBER OF VERTIC NUMPER OF SOIL L NUMBER OF PORE P NUMBER OF POINTS	LIMITING TANG AL SECTIONS AYER BOUNDARI RESSURE LINES	ES	0 1 2 5 0 E			
SMIC COEFFICIENT S	:1,SD = .0	0, .00				
T WEIGHT OF WATER	72	62.40				
EARCH IS BASED ON B	ISHOP MODIFIE	D METHOD				(
ARCH STARTS AT CENT	TER (37.0,	22.0) WITH F	FINAL GRID C	F 2.0		ۇ رىق
CIRCLES TANGENT T	O DEPTH, 35.	<u>o, </u>				
DMETRY						86. 86.
SECTIONS .0	10.0 13.0	15.0 20.0	32.0 42.0	64.0 69.0	71.0 7	4.0
	18.0 18.0 18.0 18.0 25.0 25.0 35.0 25.0 35.0 28.0	18.0 18.0 18.0 18.0 25.0 25.0	25.0 25.0 25.0 25.0	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 35.0 30.0	25.0 2 25.0 2 25.0 2 25.0 3 28.0 3	5.000000000000000000000000000000000000
INFORCING FORCE DAT	TA AT 1 LEVE	_(<u>s)</u>				
X 42.6 39.0	NO. OF FORCE FORCE .0 8000.0 8000.6 .0	PGINTS= 4				
IL PROPERTIES						
7	COMESION F .0 1000.0 1000.0	RICTION ANGL 35.0 40.0 .0	E DENDI .UT.J !20.0 !05.0			Box of the season

REINFORCING FORCE DATA AT 1 LEVEL(s)

Y≕	25.00	NO. OF	FORCE	FOINTS=	ą
	X	FORCE			
	42.0	.0			
	39.0	8000.0			
	35.0	8000.0			
	, 1 <u>-</u> 1	.0			

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DEMBITY
1	, i'i	75.0	1000
-	1000.0	40.0	120.0
7	100.0	. 0	105.0
4	1000.0	ർഗൂട്	150.0

DISHOP MODIFIED AND/OR OPDINARY METHOD OF SLICES

permafrost depth 7 feet, 10 feet from centerline

FAMGENT RADIUS (X) CENTER (Y) CENTER FS(RISHOS) FS(OMS) dFS(85) MUMBER

- 4 2 0 2 100 140	11.2.00					
1	ಎ6.0	13.0	37.0	22.0	CENTER BELOW INTERFOLATED OF	
2	35.0	13.0	33.0	22.0	CENTER BELOW INTERPOLATED OF	
3	35.O	17.0	37.0	18.0	1.043 1.007 .449	
Л	35.0	13.0	41.0	22.0	CENTER BELOW INTERPOLATED CF	
5	35.0	9.0	37.0	26.0	CENTER BELOW RIGHT INTERSECT	
Ó	J5.0	17.0	IS.O	18.0	1,040 1,023 ,456	
7	75.0	19.0	37.0	16.0	1.072 1.038 .475	
8	J5.0	17.0	79.0	18.0	1,060 1,023 .454	
i)	35.0	15.0	37.0	20.0	CENTER BELOW INTERPOLATED OF	
10	35.0	19.0	35.0	16.0	1.086 1.051 .485	
11	35.O	19.0	39.0	16.0	1.086 1.051 .485	
12	75.0	15.0	39.0	20.0	CEMTER BELOW INTERPOLATED CR	
13	35. 0	15.0	35.0	20.0	CENTER BELOW INTERPOLATED OF	

できるとも**着えられることを含めても、「大きななり」できると、「大きなな」のなりを表現のと、「大きなな」のできると、「大きななななななな」のできる。「大きななななななななななななななない。「大きなななななない。」という**

F.S. MINIMUM= 1.043 FOR THE CIRCLE OF CENTER (37.0, 18.0)

permafrost depth 7 feet, 10 feet from centerline

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SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.0	64.0	69.0	71.0	74.0
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	13.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	35.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
BOUNDARY 4	35.0	35.0	28.0	30.0	35.0	35.0	T5.0	35.0	70.0	28.0	35.0
BOUNDARY 5	75.0	75 3	75.0	35 A	75.0	75	रहा 🔿	राष्ट्र ८	T#	75 C	TE //

REINFORCING FORCE DATA AT 2 LEVEL(s)

Ÿ =	22.00 X 37.7 34.0 3.0 -0	NO. OF FORCE POINTS= FORCE .0 5000.0 5000.0	4
Yas	25.00 X 42.0 39.0 7.0	NO. OF FORCE POINTS= FORCE .0 5000.0 5000.0 .0	ą

edi bedegettE3

LAYER	COHESION	FRICTION AMOLE	DENSTITY
1.	. 1.7	55.O	130.0
2	1000.0	ABOUT A FUE	120.0
7	100.0	, Cr	105.0

permafrost	depth 5	7 feet.	10 feet	from	centerline
The part of the pa	a see ten he i	7 I \m. == \m 9		1 1 -/ 611	Carlotte and the state of the s

NUMBER	тамеент	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHOP) FS(OMS) UFS(B	39
1	28.¢	6.0	37.0	22.0	CENTER BELOW INTERPOLATED	CF
2	28.0	6.0	33.0	22.0	CENTER BELOW INTERPOLATED	CP'
3	28.0	10.0	27.0	13.0	2.265 D.187 L.3	[44]
Ą	28.0	6 O	41.0	22.0	CENTER BELOW INTERPOLATED	CF
5	28.0	2.0	37.0	26.0	CIPCLE OUTSIDE SLOPE	
á	28.0	10.0	35.0	18.0	2.404 2.312 1.6	572
7	28.0	12.0	37.0	16.0	2.307 2.249 1.5	567
8	28.0	10.0	39.0	18.0	2.404 2.312 1.6	سم بیت. سند اساد د
9	28.0	8.9	37.0	20.0	CENTER BELOW INTERPOLATED	SR
10	28.0	12.0	35.0	16.0	2,410 2,341 1,8	531
11	28.0	12.0	39.0	16.0	2.410 2.341 1.4	571
iΞ	28.0	8.0	39.0	20.0	CENTER BELOW INTERPOLATED	CF:
13	28.0	8.0	75.0	20.0	CENTER BELOW INTERPOLATED	CEF

F.S. MINIMUM= 2.265 FOR THE CIRCLE OF CENTER (07.0, 18.0)

BISHOP MODIFIED AND/OR ORDINARY HETHOD OF BLICES

permafrost depth 7 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(EISHOP)	FS(OMS)	dFS(ES)
1	30.0	10.0	35.0	20.0	CENTER BELO	W INTEFF	OLATED CRA
Ξ	30.0	10.0	31.0	20.0	CENTER BELO	W INTERP	OLATED CRA
3	70.0	14.0	35.0	16.C	1.731	1.580	1.06%
4	30.0	10.0	39.0	20.0	CENTER BELO	W INTERF	OLATED CRA
5	30.0	6.0	35.O	24.0	CENTER BELO	W THITEPP	OLATED CP/
5	30.0	14.0	33.0	16.0	1.895	1.826	1.156
7	30.0	16.0	35.0	14.0	1.779	1.739	1.097
8	30.0	14.0	37.0	16.0	1.582	1.636	1.035
9	30.0	12.0	35.0	18.0	1.672	1.610	i.ote ;
10	30.0	12.0	33.0	18.0	1.884	1.797	1.127
11	30.0	12.0	37.0	18.0	1.612	1.556	.976 ⋅
1 🗅	30.0	10.0	35.0	20.0	CENTER BELO	W INTEFF	'GLATED CRY
13	TOLO	14.0	37.0	16.0	1.482	1.606	1.005
14	00.0	12.0	39.0	18.0	1.672	1.610	1.010
15	30.0	10.0	37.0	20.0	CENTER BELO	W THTEPP	POLATED CR:
16	30.0	14.0	35.0	15.0	1.731	1.690	1.067
1.7	30.0	14.0	77.0	16.0	1.701	1.590	1.065 }
:8	30.0	10.0	79.0	20.0	CENTER BELO	W INTERF	POLATED OF
19	30.0	10.0	75.O	20.0	CENTER BELO	RESTHI W	OLATED OF

F.S. MINIMUM= 1.312 FOR THE CIRCLE OF CENTER (07.0, 15.0)

EISHOF MODIFIED AND/OF OPDIMARY METHOD OF SUIGHT

permafrost depth 7 feet, 10 feet from tenterline

MUMBER	TANGENT	RADIUS	(X) C'ENTER	(Y) CENTER	FF(BJEHOP	/ TS (JMS)	d75 (35)
1	TELO TELO	13.0	55.0 71.0	<u> </u>		ELDM INTER	
2	75.0 75.0	15.0 17.0	31.0 18.0	De.A La.C		ELOM INCTER 1.971	
<i>i</i> i.	75.0	15.0	59.4	777.		LLOV INTERPO	
5 6	75.0 . 75.0	11.0 19.0	75.0 77.0	74.7 16.0		TUSW INTERF	JLATED OF . SOF
-"			- 1			, ,	4 22

F.S.	. 690111145 6780
= MUNIMIM =	05.0 05.0 05.0 05.0 05.0 05.0 05.0 05.0
1.035 FOR T	21.0 19.0 17.0 17.0 15.0 15.0 19.0 19.0 15.0
HE CIRCLE OF	35.0 35.0 35.0 37.0 37.0 37.0 37.0 39.0 39.0
CENTER (14.0 16.0 18.0 18.0 16.0 16.0 16.0 20.0 20.0
37.0. 18.	1.149 1.090 1.052 1.106 1.005 CENTES 1.090 1.050 CENTER 1.106 1.106 CENTES
0,	BELOW SELOW SELOW 1 BELOW 1 BELOW
	.118 .54 .057 .49 .015 .44 .064 .45 .999 .44 INTERFOLATED C .057 .49 .015 .4. INTERPOLATED C .071 .50 INTERFOLATED C INTERFOLATED C
ट्टा 	ja til 1978 og 1979 og 1988. Istoria

permafrost depth 7 feet, 10 feet from centerline

CONTROL DATA

NUMBER OF	SPECIFIED CENTERS	O
NUMBER OF	DEPTH LIMITING TANGENTS	7
NUMBER OF	VERTICAL SECTIONS	12
NUMBER OF	SOIL LAYER BOUNDAR)ES	5
NUMBER OF	POTE PRESSURE LINES	0
NUMBER OF	POINTS DEFINING COHESION PROFILE	Ō

SEISMIC COEFFICIENT S1,82 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES TANGENT TO DEPTH, 28.0, 30.0, 35.0,

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.0	64.0	49.0	71.0	74.0	
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0	
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0	
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0	
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
BOUNDARY I	35.0	35.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	
BOUNDARY 4	35.0	35.0	28.0	30.0	35.0	35.0	35.0	35.0	30.0	28.0	35.0	
BOHNDARY 5	35.0	35.0	35.0	350	35.0	35.0	35.0	35.0	35.0	35.0	75.0	

REINFORCING FORCE DATA AT 3 LEVEL(s)

γ=	20.00 X 74.8 31.0 5.0	NO. OF FORCE .0 1666.0 1666.0	FORCE	LOTU12=	4
Υ=	22.00 X 37.7 34.0 3.0	NO. OF FORCE .0 5000.0 5000.0	FORCE	FOINTS=	Ą
∀ ==	75.00 X 42.0 39.0 J.0 J.0	NO. OF FORCE .0 5000.0 5000.0	FORCE	POINTS=	~ 1

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DENSITY
1	.0	35.0	135.0
2	1000.0	40.0	120.0
3	100.0	.0	105.0
4	1000.0	4ϕ , ϕ	120.0

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth 7 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(BISHC	P: FS(OMS)	dFS(BS)
1	28.0	6.0	37.0	22.0	CENTER	BELOW INTERF	OLATED CF.
2	28.0	6.9	53.0	22.0	CENTER	BELOW INTERP	OLATED OF
3	28.0	10.0	37.0	18.0	2.358	2.287	1.639
4	28.0	6.0	41.0	22.0	CENTER	BELOW INTERF	OLATED CRA
5	28.0	2.0	T7.0	26.0	CIRCLE	OUTSIDE SLOP	Έ
6	28.0	10.0	35.0	18.0	2.503	2.411	1.731
7	28.0	12.0	37.0	16.0	2.446	2.388	1.705
8	28.0	10.0	39.0	18.0	2.507	2.411	1.731
9	28.0	8.0	37.0	20.0	CENTER	BELOW INTERF	OLATED CRA
10	C8.0	12.0	35.0	16.0	2,555	Ω.486	1.775
11	28.0	12.0	39.0	16.0	2.555	2.486	1.776
12	28.0	8.0	39.0	20.0	CENTER	BELOW INTERS	POLATED CRE
13	28.0	8.0	35.0	20.0	CENTER	BELOW INTERP	OLATED OFF

F.S. MINIMUM= 2.358 FOR THE CIRCLE OF CENTER (37.0. 18.0)

BISHOP MODIFIED AND/OR ORDINARY METHOD OF SLICES

permafrost depth $oldsymbol{7}$ feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y: CENTER	FS(BISHO	P) FS(OMS)	dFS / BS :
	** *********	10.0	→	22.0	OFLITTE	mer err tritten	
ī	30.0	10.0	35.0	20.0		BELOW INTER	
Ξ	30.0	10.0	31.0	20.0	CENTER	BELOW INTER	POLATED CRA
3	30.0	14.0	J5.0	16.0	1.826	1.774	1.158
А	30.0	10.0	39.0	20.0	CENTER	BELOW INTER	POLATED CP/
5	30.O	6.0	J5.0	24.0	CENTER	BELOW INTER	POLATED CRE
6	30.0	14.0	33.0	16.0	1.998	1.927	L.259
7	50.0	16.0	35.0	14.0	1.895	1.254	1.212
8	30.0	14.0	37.0	16.0	1.774	1.728	1.127
9	30.0	12.0	J5.0	18.0	1.754	1.671	1.071
111	70.0	12.0	33.0	19.0	1.752	1.365	1.195
11	37040	12,0	37.70	18.0	1.471	1.615	1,375
12	TO.0	1000	35.0	20.0	CENTER	BELOW INTER	POLATED OF.
13	30.0	14.0	37.0	16.0	1.774	729	1.127
14	30.0	12.0	39.0	18.0	1.754	1.571	1.071
J 5	30.0	10.0	27.0	20.0	CEHTER	SELOW INTER	POLATED OF
15	30.0	18.0	T5.0	16.0	1.825	1.774	1.159
17	30.0	14.0	79.0	16	1.30%	: 774	1.150
18	30.0	10.0	79.0	20.0	CENTER.	BELOW INTER	FOLATED OF
19	20.0	10.0	75.0	20.0	CENTER	BELOW INTER	POLATED OF

F.S. MINIMUM: 1.671 FOR THE DIRCLE OF CENTER (17 4 19.4)

RIGHOP MODIFIED AND/OR ORDINARY METHOD OF BLICES

permafrost depth leet, 10 feet from centerline

MUNIFER HERNUN	TAMPENT	KADIU5	(X) CENTER	(7) CENTER	FS(BISHOF) CENTER BELO	FS (OMS)	dFS(BS)
1 2	75.0 35.0	15.0 15.0	.35.0 31.0	20.0 20.0	CENTER BELO		
ত্র	35.0	19.0	55. 0	16.0	1.151	1.116	.55: 🕍
4	75.0	15.0	39.0	20.0	CENTER PELO		DLATED OF 3
s S	35.0	11.0	35.0	24.0	CENTER BELO		OLATED OF M
6	35.0	19.0	33.0	16.0	1.200	1.160	.572
7	35.0	21.0	35.0				· 2/
9				14.0	1.207	1.175	.402
3		19.0	37.0	16.0	1.136	1.100	.541
9		17.0	35.0	18.0	1.079	1.042	· 17E
		17.0	33.0	18.0	1.134	1.092	. 49-
1 1		17.0	37.0	18.0	1.062	1.026	.45 ⁻ N
12	35.0	15.0	35.0	20.6	CENTER BELC		OLATED OF. 🔀
17	35.0	19.0	37.0	16.0	1.176	1.102	.545
14	35.0	17.0	39.0	18.0	1.079	1.042	. 475 😹
15	35.0	15.0	37.0	20.0	CENTER BELO	W INTERP	CLATED CF &
16	35.0	19.0	35.0	16.0	j.151	1.116	.55∵ 👸
17	35.0	19.0	39.0	16.0	1.151	1.116	.550 🥞
18	35.0	15.0	39.0	20.0	CENTER BELC		OLATED CF: 🛱
19	Z5.0	15.0	35.0	20.0	CENTER BELO		
F.S. MI	MIMUM=	1.062 FOR	THE CIRCLE C	F CENTER (37.0, 18.0)		
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permafrost depth 7 feet, 10 feet from centerline

CON	ITE	OI .	DΔ	ΥA

NUMBER OF SPECIFIED CENTERS

NUMBER OF DEPTH LIMITING TANGENTS

NUMBER OF VERTICAL SECTIONS

NUMBER OF SOIL LAYER BOUNDARIES

NUMBER OF PORE PRESSURE LINES

NUMBER OF POINTS DEFINING COHESION PROFILE

O

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES PASS THROUGH THE POINT (42.0, 35.0)

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.C	64.0	69.0	71.0	74.0
T. CRACES	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.9	25.0	23.0	25.0
W IN CRACK											
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3											
BOUNDARY 4											
BOUNDARY 5	35.0	35.0	75.0	35.0	35.0	J3.0	35.0	35.0	35.0	35.0	∵5.0 j

REINFORCING FORCE DATA AT O LEVEL(s)

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DENSITY
i.	.0	75.0	175.0
2	1000.0	40.0	120.0
<u> -</u>	100.0	.0	105.0
4	1000.0	40.0	120.0

BISHOP MODIFIED AND/OR OPDINARY METHOD OF SLICES

permafrost depth 7 feet. 10 feet from centerline

MUMBER	TANGENT	PADJUS	(Y) CENTER	(Y · CENTER	4945:8·E	· F5/689	dFs(BS
1	35.9	13.9	77.0	22.0	CINTER 8	ELOW INTERF	OLATED OF.
Ξ	- 0	15.8	37.0	22	CENTER B	ELOW SHITERS	GLATED OF
-	75.,	17.7	57. 0	13.0	.45%	. '71	
4	J3.0	, " (i)	41.0	and the state of the	CENTER 9	ELOW INTERS	OLATED OF
5	76.0	10.	37.0	26.0	CENTER B	ELON RIGHT	INTERSECT
6	76.4	18. 1	35.0	(0.)	, 10T	. 787	, Çërë
7	35.6	10.6	37.0	14.0	. 1-1	1.40	• 1.12°
9	75.7	17.3	79.0	18.0	, कर्	, 489	, Orga,

AUS J.A.	ALLEC BURELLE	NELLARIA DARIANIA	alemenanalele	ZETEKRIJEKENEKEN)	Cenedata energia			TALKAT ALIKAMA
	4	ან. 8	15.8	37.0	20.0	CENTER	BELOW INTERPOL	ATED CF
	10	37.2	19.2	53.0	18.0	. 373	. 758	. 000
	11	36.2	20.2	75.0	(6.0	.411	. 395	.000
	12	76.6	16.6	75.0	20.0	CENTER	BELOW INTERPOL	LATED CF
	13	J8.2	20.2	31.0	18.0	2.197	0.238	* QC+12
	14	37.0	21.0	53.0	16.0	. 178	. 765	. e-e-
	15	37.5	17.5	33.0	20.0	CENTER	BELOW INTERPOL	LATED OF
	1.6	78.O	22.0	31.0	16.0	2.841	2,572	. 900
	17	76.2	20.2	35.0	16.0	. 411	, T95	1007
	18	వెద.చ	16.6	75.0	20.0	CENTER	BELOW INTERPO	LATED OF
Ē.	19	38.6	18.6	31.0	20.0	CENTER	BELOW INTERPOL	LATED OF

F.S. MINIMUM= .373 FOR THE CIRCLE OF CENTER (33.0, 18.0)

permafrost depth 7 feet, 10 feet from centerline

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SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES PASS THROUGH THE POINT (42.0, 35.0)

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	32.0	42.0	64.0	59.0	71.9	74.0
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.9
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	23.0	25.0	25.0
BOUNDARY I	35.0	35.0	25.0	25.0	25.0	25.0	25.0	25,0	25.0	25.0	35.0
BOUNDARY 4	T5.0	35.0	28.0	30.0	35.0	35.0	75.0	35.0	30.0	28.0	35.0
BOUNDARY 5	35 O	35 A	75 0	35 0	75 A	75 A	75 C	75 6	35.0	35 A	रुष ∴

REINFORCING FORCE DATA AT 1 LEVEL(s)

∨ =	25.00	NO. OF	FORCE	POINTS=	Ą,
	X	FORCE			
	42.0	.0			
	39.0	5000.0			
	3.0	5000.0			
	.0	.0			

SOIL PROPERTIES

LAYER	COHESION	FRICTION AMOLE	DEMSIT?
1		75.0	100.0
2	1000.0	40.0	120.0
J	100.0	• •	:05.0
J	1000.0	غ <i>ا</i> ر ت	120.0

BISHOF MODIFIED AND/OF OFCIMARY METHOD OF SLICES

permafroat depth 7 feet, 10 feet from centerline

NUMBER TANGENT RADIUS () CENTER () CENTER () FIRETOMOR FOR CHS. MESCRE-

Walter State of Line of	THE RESIDENCE PARTY AND ADDRESS OF						· ·
1	35.9	17.9	37.0	22.0	CENTER	BELOW INTER!	POLATED OF
2	37.8	15.8	33.0	22.0	CENTER	BELOW INTER	POLATED OF I
I	35.7	17.7	37.0	18.0	.714	. 491	,260
4	35.0	15.0	41.0	CC. 6	CENTER	BELOW INTER	POLATED CR
5	36.3	10.3	37.0	25.0	CENTER	BELOW RIGHT	INTERSECT
ద	36.4	18.4	35.0	18.0	, 444	. 527	.040
7	35.6	19.6	37.0	16.9	.741	,722	.287
8	The T	17.I	39.0	3 Cr	.797	.769	. 180
C	35.8	15.8	37.0	20.0	CENTER	BELOW INTER	POLATED OF
10	37.2	19.2	33.6	15.0	. 599	, 597	
1.1	36.2	20.2	35. 0	16.0	.673	. 658	.262
17	36.6	16.5	J3.0	20.0	CENTER	BELOW INTER	POLATEN CF.
15	38.2	20.2	31.0	18.0	2.609	2.449	. 211
14	37.0	21.0	33.0	16.0	. 527	.614	. 245
15	37.5	17.5	33.0	20.0	CENTER	BELOW INTER	POLATED CR
16	38.0	22.0	31. 0	16.0	3.075	2,806	. 234
17	36.2	20.2	35.0	16.0	.673	.ა59	.262
13	36.6	16.6	35.0	20.0	CENTER	BELOW INTER	POLATED CR
19	38. 6	18.6	31.0	20.0	CENTER	BELOW INTER	FOLATED CR.

.598 FOR THE CIRCLE OF CENTER (33.0, 18.0)

F.S._MINIMUM=

permafrost depth 7 feet, 10 feet from centerline

CON	ITE	Oi -	DATA	
14 14 14	4 2 4 1	J L		

NUMBER OF SPECIFIED CENTERS 0
NUMBER OF DEFTH LIMITING TANGENTS 0
NUMBER OF VERTICAL SECTIONS 12
NUMBER OF SOIL LAYER BOUNDARIES 5
NUMBER OF PORE PRESSURE LINES 0
NUMBER OF POINTS DEFINING COHESION PROFILE 0

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

SEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF C.C

ALL CIRCLES PASS THROUGH THE POINT (42.0, 35.0)

GEOMETRY

SECTIONS	.0	10.0	13.0	15.0	20.0	72.0	42.0	64.0	69.··	71.0	74.0
T. CRACKS	18,0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	J5.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0
POUNDARY 4	35.0	75.O	28.0	30.0	35.0	35.0	35.0	3 5 0	BO. O	28.0	75.0
BOUNDARY 5	75.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	J5. 0	75.0	JT.0

REINFORCING FORCE DATA AT 2 LEVEL(s)

Y =	22.00 X 37.7 34.0 3.0	NO. OF FORCE .0 5000.0 5000.0	FORCE	FOINTS=	4
Y-=	25.00 X 40.0 59.0 T.0	NO OF FORCE .0 5000.0 5000.0	FORCE	FOINTS=	4

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANDLE	DURSTTY
1	, 🔆	75.0	1.75。(
C	1000.0	4Q. **	120.0
rays 2	100.0	. ⊕	105.O

F.S. MINIMUM= .724 FOR THE CIRCLE OF CENTER (33.0, 18.0)

permainost depth 7 feet, 10 feet from centerline

NUMBER	TANGENT	FADIUS	(X) CENTER	(Y) CENTER	FS(BISHC	OF) FS(OMS)	dFS(89
1	75.9	15.9	37.0	22.0	CENTER	BELOW INTERF	OLATED OF
2	I7.9	15.8	U3.0	22.0	CENTER	PELOW INTERS	POLATED OF 🖁
7	I5.7	17.7	37.0	18.0	. 867	, 용세호	, 40 ÷ }
4	35.0	1200	41.0	22,0	CENTER	BELOW INTERP	POLATED OF \$
5	36.3	10.5	57.0	26.0	CENTER	BELOW RIGHT	INTERSECT >
6	16.4	18.4	35. 0	18.0	. 781	.754	.377 🕺
7	35.6	19.6	37.0	16.0	.932	.911	. 471
8	35.3	17.3	39.0	18.0	. 959	. 929	.440
9	75.8	15.8	37.0	20.0	CENTER	BELOW INTERF	POLATED OF. A
10	37.2	19.2	33.0	18.0	.726	.711	.350 8
11	76.2	20.2	35.0	16.0	.848	.832	.157 §
12	J6.6	16.6	35.0	20.0	CENTER	BELOW INTER	PULATED OR: {
13	38.2	20.2	31.0	18.0	2.729	2.570	, 372 🖁
14	37.0	21.0	33.0	16.0	.797	.780	.414
15	37.5	17.5	33.0	20.0	CENTER	BELOW INTERF	POLATED CR∂\
16	38.O	22.0	51.0	16.0	7.231	2,962	.390 \
17	36.2	20.2	35.0	16.0	.848	.832	.437
18	36.6	16.6	75.C	20.0	CENTER	BELOW INTER	POLATED CR.
19	38.6	18.6	31.0	20.0	CENTER		OLATED CR.

permafrost depth 7 feet, 10 feet from centerline

CONTROL DATA		
NUMBER OF	SPECIFIED CENTERS	73
NUMBER OF	DEPTH LIMITING TANGENTS	Ç,
NUMBER OF	VERTICAL SECTIONS	12
NUMBER OF	SOIL LAYER BOUNDARIES	5
NUMBER OF	PORE PRESSURE LINES	Ō

NUMBER OF POINTS DEFINING COHESION PROFILE

SEISMIC COEFFICIENT S1,S2 = .00, .00

UNIT WEIGHT OF WATER = 62.40

SEARCH IS BASED ON BISHOP MODIFIED METHOD

BEARCH STARTS AT CENTER (37.0, 22.0) WITH FINAL GRID OF 2.0

ALL CIRCLES PASS THROUGH THE POINT (42.0, 35.0)

GEOMETRY

SECTIONS	.0	10.0	15.0	15.0	20.0	32.0	42.0	64.0	69.0	71.0	74.0
T. CRACKS	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
W IN CRACK	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 1	18.0	18.0	18.0	18.0	18.0	18.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
BOUNDARY 3	35.0	35.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	J5. 0
BOUNDARY 4	35.0	35.0	T8.0	30.0	35.0	35.0	35.0	35.0	<u> To.</u> 0	28.0	$\mathbb{D}\mathbb{D}_{+}\mathbb{C}$
POUNDARY 5	75 0	75.0	マワーム	75 0	75 0	ر) پيراست	TE: 7.	~~ ==	75 C	75 0	~ C.

REINFORCING FORCE DATA AT 3 LEVEL(4)

Υ≔	20.00 y 54.8 31.0 5.0	NO. OF FORCE POINTS= FORCE .0 1666.0 1646.0	4
Υ=	22.00 Y U7.7 I4.0 J.0	NO. OF FORCE POINTS= FORCE .0 5000.0 .0	4
Υ=	25.00 x 42.0 39.0 7.0 .0	NO. OF FORCE FOINTS= FORCE .) 5000.0 5000.0	4

SOIL PROPERTIES

LAYER	COHESION	FRICTION ANGLE	DENSITY
1	, (*	35.0	135.0
5	1000.0	40.0	120.0
3	100.0	្តប៉ូ	105.0
4	1000.0	40.0	120.0

BISHOP MODIFIED AND/OR OPDINARY METHOD OF SLICES

permafrost depth 7 feet, 10 feet from centerline

NUMBER	TANGENT	RADIUS	(X) CENTER	(Y) CENTER	FS(PISHO	P) FS(OMS)	dFS(BS)
1	35.9	13.9	37.0	22.0	CENTER :	BELOW INTERS	OLATED OR
2	37.8	15.8	33.0	22.0	CENTER	BELOW INTERA	POLATED CRI
3	35. <i>7</i>	17.7	37.0	18.0	.827	.865	.434
4	35.0	13.0	41.0	22.0	CENTER	BELOW INTERS	OLATED CF
5	36.3	10.3	37.0	26.0	CENTER	BELOW RIGHT	INTERSECT:
5	36.4	18.4	35.0	18.0	.804	.786	, 399
7	35.6	19.6	37.0	16.0	.974	, 953	.513 (
8	35.3	17.3	39.0	18.0	.986	. 956	.467
9	35.8	15.8	37.0	20.0	CENTER	BELOW INTER	POLATED CRA
10	37.2	19.2	33.0	18.0	748	.733	.375
11	T6.2	20.2	35.0	ქი.○	.887	.871	.476
12	36.6	16.6	35.0	20.0	CENTER	BELOW INTER	POLATED CRA
13	38.2	20.2	31.0	18.0	2.749	2.590	.352
14	37.0	21.0	33.0	16.0	.829	,916	.451
15	37.5	17.5	33.0	20.0	CENTER	BELOW INTER	POLATED CRE
16	38.0	,22.0	31.0	15.0	3.266	2.997	.425
17	36.2	20.2	35,0	16.0	.887	.871	
18	J6.6	16.6	35.0	20.0	CENTER	BELOW INTER	
19		18.6	31.0	20.0		BELOW INTER	POLATED CR:
<u> </u>							

5.8. MINIMUM= .748 FOR THE CIRCLE OF CENTER (ID.O, 18.0)

KONDONANDER HENDOSONO INTERCEDADO

APPENDIX C

PROCUREMENT OF SSTIPN PROGRAM

The procurement of computer software at Georgia Tech must follow Electronic Data Processing Equipment Request Procedures (EDP) under an executive order from the Governor. The procurement of SSTIPN is summarized as follows:

- 1. EPD request number 11-EC-86 was submitted for approval (enclosed).
- 2. Approval letter for EDP request number 11-EC-86 (enclosed).
- Georgia Institute of Technology requisition form for SSTIPN (enclosed).
- 4. Letter of request for purchase of SSTIPN to Professor Duncan (enclosed).
- 5. Acceptance letter Professor Duncan (enclosed.

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and the same property with the

TABLER SAME TO THE SAME

LIDATION OF EQUIPMENT'S

Manager growth and the second of the second

TYPE TE BEREET

11-EC-86

Desagle Teath tole Lotter of the Sailtege at Megaliar tog Degree been i af Direkt Megales stille

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Best Available Copy

BOARD OF REGENTS OF THE UNIVERSITY SYSTEM OF GEORGIA

PRESIDENT'S OFFICE RUILDING ATHENS, GEORGIA 30602

OFFICE OF ASSISTANT VICE CHANCELLOR FOR COMPUTING SYSTEMS

January 31, 1986

Dr. Joseph M. Pettit President Georgia Institute of Technology 225 North Avenue, N.W. Atlanta, GA 30332

Dear President Pettit:

Approval is given to Georgia Institute of Technology to acquire the data processing equipment referenced in request number(s):

12-AT-86

Yours very truly,

James I. Cármon

Assistant Vice Chancellor for Computing Systems

JLC/jw

cc: Mr. John Gehl

GEORGIA INSTITUTE OF TECHNOLOGY

SCHOOL OF CIVIL ENGINEERING

DATE 1/22/86
SUPPLIES
Signature of person requesting Wail O. J.
Signature of faculty member supervising Alas D. O.
Signature of cognizant staff that these items are not in stock
Estimated Cost 200.00
On Campus Off Campus State Funds Project Funds ✓
Vendor Virginia Tech Foundation
Items Computer Program SSTIPN (on tape), source listing,
and user manuals
•
1)
E20-693
1/10
Requisition Number 200-6-25147
Approved Dining Francis
J. E. Fitzgerald, Director
School of Civil Engineering

Proposition 1.24 Suggen Superiment of Civil Inchneering 134 Pathon Hall Virginia Town 2 2 Stanksburg, VA 24051

Dea Professor Duncan,

The finite element analysis program, Soil Sinucials Interaction Program Non-linear (SSTIPN), we discussed in our plans of provensation on January 17 will be very useful for our plans. Distillude a geotextile reinforced road subunkment. I am replacitive that you send a copy of SSTIPN with source listing and osen mediate to the following address: Neil D. Williams. Ph.D.

c/o Seorge Papaibanou Georgia Institute of Technology Department of Divil Engineering Atlanta, GA 30332

It is my understanding from our phone conversation that the ecomposition that the ecomposition number applicable to this purchase is #200-6-23147.

The following tape format information is provided for b. ma. Enoposies of the program:

80 character records

10 nseconds par block

7 bracks

Collection ASCII or EDCDIC

Dansbty - 1600 or 6250 DPI

In addition, presse specify the program type format of (): - vow send.

14 for then andermanise is new direct place centeer the second

Coard you fan your beffort and toal marches

Jeorg Prever



VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Blacksburg, Virginia 24061

できょうと、「一直なりについて、第一のことでは、「一直を存むないのである。」を表示ないが、「一直をなっている」というなどがなる。 「一直をなっている。」は、「一直をなっている。」 「一直をなっている。」 「一直をなっている」」 「一直をなっている」」 「一直をなっている」」 「一直をなっている」」 「一直をなっている」」 「一直をなっている」」 「一直をなっている」 「一直をなっている」」 「一直をなっている」 「一直をなっている」」 「一直をなっている」 「一定なっている」 「一定なっている。」 「一定なっている。」 「一定なっている。」 「一定なっている。」 「一定なっている。」

DEPARTMENT OF CIVIL ENGINEERING (703) 961-6635

February 13, 1986

INVOICE

Mr. George Papaioanou c/o Dr. Neil D. Williams Georgia Institute of Technology Department of Civil Engineering Atlanta, GA 30332

REF: Requisition No. 200-6-25147

For computer program SSTIPN (Soil-Structure Interaction Program) sent via BITNET on February 13, 1986.

SSTIPN

\$200.00

Payable upon receipt.

Mail payment to:

Professor J. M. Duncan Department of Civil Engineering 104 Patton Hall Virginia Tech Blacksburg, VA 24061

Please make check payable to: The Virginia Tech Foundation, Inc.

APPENDIX D

BASIC PLOTTING PROGRAM

The BASIC program for plotting FEADAM84 and SSTIPN reduced output was written by Robert L. Roglin (21). The program was written for use on an IBM PC with enhanced computer graphics. Output data from FEADAM84 and SSTIPN was reduced for use in the plotting program. Four data files were reduced from the output: Nodal point input data, four node solid element data, Nodal point displacement data, and four node element stress data. Three dimensional plots of stresses were not useful in evaluating stress distributions within the embankment and are not included. Program source listing is enclosed.

```
10 REM
           PROGRAM:
                     GRAPH!
                                                                                   20 REM
              USER:
30 REM
                      R.L. ROGLIN RESEARCH ENG II STRI
40 REM
                      CEORGE PAPA (CANCL SPECIAL PROPLEM
                     THIS PROGRAM IS USED TO PLOT A TWO CLMENGIONAL FINITE
EO REM
          ABSTRACT:
50 REM
                        ELEMENT GRID IN THE UNDEFORMED IND DEFORMED STATES
70 REM
SO REM ---
90 DIM ST(70),X(70),Y(70),D((3.70),DY E.70)
100 DIM EL(50), I1(50), I7(50), I7(50), [4(50), EX(50), E7(50)
110 DIM SX((%,50:,87Y(3,50),8XY(%,50),XS(50: 78(50)
100 DIM ELS(10) [ELF(10)
100 FEM
140 REM
        Open Files for input "JUINTS" "CLEMENTS" "DICPL" "STRUSSEE"
150 REM
LSC REM
170 REM
180 REM
190 OPEN "JOINTS.DAT" FOR INPUT AS #1
200 INPUT #1, NJT
210 FOR I = 1 TO NUT
230 MEXT I
240 CLOSE #1
ISO OPEN "ELEMENTS.DAT" FOR IMPUT AS #1
260 IMPUT #1, MEL
270 \text{ FOR } I = I \text{ TO NEL}
280 INPUT #1,EL(I),11(EL(I)),12(EL(I)),13(EL(I)),13(EL(I)),14(EL(1)),EX(EL(I)),EX(EL(I))
IGO WE T I
TOO INPUT #1.NLR
Dio FOR I = 1 TO NLR
    INPUT #1, LAY, ELS(LAY), ELF(LAY)
320
330 NEXT I
340 CLOSE #1
JSO GPEN "DISPL.DAT" FOR INPUT AS #1
J66 INPUT #1, NLC
370 FOR J = 1 TO NLC
180 FOR I = ! TO NJT
390
     INPUT #1, JT(I).DX(J,JT(I)),DY(J,JT(1))
400 NEXT I
JIO NEXT J
420 CLOSE #1
430 OPEN "STRESSES.DAT" FOR IMPUT AS #1
440 \text{ FOR J} = 1 \text{ TO NLC}
450 FOR I = 1 TO MEL
    INPUT #1.EL I),SXY(J,EL(I)),SXY(J,EL(I),SX\(J,EL(I)))
46()
470 MEXT I
457 NEXT J
490 CLOSE #1
500 REM
510 PE1
EDM DEM
            Displaced Shape Platting
STO REM
도취상 공연원
550 REM
560 IMPUT "HERIZONTAL SCALE FACTOR. ": MCALE
570 INPUT "VERTICAL BOULE FACTOR" ": /SCALE
SED IMPUT "HORIZONTAL DISPLACEMENT SCALE PACTURE "STRILLALI
590 INFUT "LETICAL DISPLACEMENT SCALE FACTOR: ".SVE ALI
SHO IMPUT "LOAD CHSE NUMBER: ":LO
Win GOREEN L.O.
als color .3
る「O MINDOW (HIJE,HTO) - いちeの、1500
JAY REM
650 REN
```

```
670 REM
580 REM
590 REM
700 LIME (0,0) - (400,0): LIME (0,0) - (0,100)
7:0 PEM
720 REM
730 REM
          Firt Undeformed Geometry
7+0 REM
750 RE4
760 REM
770 FOR I = 1 TO NEL
780
     X_{\perp} = HSCALE * X(II(EL(I))) = YI = VSCALE * Y(II(EL(I)))
     X2 = HSCALE(X(II)(EL(I))): Y2 = VSCALEX((II)(II)(): LiftE (.iy1) - (XI)(EL(II)
     X3 = HSCALE*x([J(EL(I))); YJ = VSCALE*Y([J(EL(I))); LINE - (X3,Y3))
300
310
     X4 = HSCALE*X(I4(EL(I))): Y4 = VSCALE*Y(I4(EL(I))): LINE - (X4,Y4)
820
    LINE - (X1,Y1)
830 NEXT I
840 REM
850 REM
ESO REM
         Flot Deformed Geometry
870 REM
880 REH
890 REM
900 \text{ FOR I} = 1 \text{ TO NJT}
710
     XI = HSCALE *X(I1(EL(I))) + DHSCALE *DX(LC, I1(EL(I)))
520
     X2 = HSCALE kX(I2 · EL(I))) + DHSCALE*DX(LE, II(EL(I))
     XD = HSCALE*X((IJ(EL(I))) + DHSCALE*DX(LD,II(EL(!)))
930
940
     X4 = HSCALE*X(14(EL(I))) + DHSCALE*DX(LC,14(EL(I)))
950
     Yt = VSCALE*Y(II(EL(I))) + DVSCALE*DY(LC,I1(EL(I)),
760
     Y2 = VSCALE*Y(I2*EL(I))) + DVSCALE*DY(LC,I2*(EL(I)))
970
     Y3 = VSCALE*Y(I3(EL(I))) + DVSCALE*DY(LC,I3(EL(I)))
980
     Y4 = VSCALE*Y(I4(EL(I))) + DVSCALE*DY(LC,I4(EL(I)))
990
     LINE (X1,Y1) - (X2,Y2),2
1000 LINE - (X3,Y3),2
     LINE -(X4,Y4),Z
1010
1020
     LINE -(Xi,Y1),2
1030 NEXT I
1040 REM
1050 REM
1050 REM
           Stress Contour Platting
1070 FEM
1080 REM
1090 REM
1000 REM
1110 REM
           Levelop Coordinate Transformation Equations
1120 REM
: ID FEM
1140 REM
1:50 IMPUT "SPIM ANGLE, TIP ANGLE: ": 3PIN.TIP
tild COPIN = COS(SPINXO.14159/180): ESPIN = Bitt Shift AT.(4139 LT.
11TO CTIF = CBS(TIP*3.14159/130): STIF + Bln(TiT+3.14109.130)
1120 PRINT "capin = ".CSP(N." dan/n = ".35P.N
1190 PRINT "ctip = ".CTIP." strp = 1.0718
UZCO IMPUT "STRESSU LOAD: ": CUREST! C
1210 CLS
1220 FOR I = 1.70 MEL
1276
      IF STRESS = 1 THEN SIG = E(N(LD.CL I )
1740
      IF STRESS = C THEN BIS = 5/Y/LD/SULLY
      IF STRESS = T THEN SIG = 31 (UD.CL ) :
125:
      #S.EL(I) = E(\EL\I) #E5FF\ + 35FF\#[]]
. . . . . .
1270
      Y3'EL(1), = T. (EL(1)) | NOT: P - F - TT: P * (EX - NL(1) - 1)
IIG & NEXT I
1290 REM
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1380 REM
1390 KEM ----
1400 REM
1410 XSX = 100 ACBPIN: YSX = -100 XSPIN ABTIF: 100 C(0) 100 (XSX, Y (x)):
1420 XSY = 0: YSY = 190 \times CTIP: LINE (0,0) - (XSY,YSY), 0
1430 XSZ = 100 *SSPIN: YSZ = 100 *CSPIN*STIM: LIME (0,0) - (XGZ,YSZ), 3
1440 FOR I - 1 TO MEL
1450 XI = HSCALF*X([1(EL([))): YI = VSCALE*Y([1(EL([)))
1460 Y1 = Y1*CTIP + X1*STIP*(-1 *SSPIN: X1 = X1*CSPIN
1470 XC = HSCALE*X(I2(EL(I))): Y2 = VSCALE*Y(I2(EL(I)))
J480 Y2 = 72*CTIP + X2*STIP*(-1)*SSPIN: X2 = X2*CSPIN: LINE (X1,71) - (X2,Y2)
1490 X3 = HSCALE * X (I J (EL (I))) : YJ = VSCALE * Y (I J (EL (I)))
1500 YD = YD*CTIP + XD*STIP*(-1)*SSPIN: XB = YB*CSPIN: LINE - (XB,\B)
1510 X4 = HSCALE*X(I4(EL(I))): Y4 = VSCALE*Y(I4(EL(I)))
1520 Y4 = Y4*CTIP + X4*STIP*(-1)*SSPIN: X4 = X4*CSPIN: LINE - (X4,Y4)
1530 LINE - (X1, Y1)
1540 NEXT I
1550 FOR K = 1 TO NLR
1560 \text{ k.t.} = (NLR + 1) - \text{k.t.}
1570 J = 0
1580
     FOR I = ELS(k1) TO (ELF(k1) - 1)
1590
       IB = ELF(K1) - J: IE = ELF(K1) - J - 1
1600
       LINE (XS(IB),YS(IB)) - (XS(IE),YS(IE))
1610
       IF E1 = 1 THEN GOTO 1640
       IE = ELF(K1 - 1) - J
1620
1650
       LINE (XS(IB), YS(IB)) - (XS(IE), YS(IE))
1640
       J = J + 1
1650
      NEXT I
1660
      IF K1 = 1 THEN GOTO 1700
      TB = ELF(M1) - J: TE = ELF(M1 - 1) - J
1670
     LINE (XS(IB), YS(IB)) - (YS(IE), YS(IE))
1680
1690 NEXT K
1700 REM
1710 STOP
```

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APPENDIX E

SSTIPN OUTPUT DATA

Detailed results of the SSTIPN analyses are contained herein.

Output data includes nodal point displacements, soil element stress and strain data, and internal forces of structural elements. Analyses include output for all five different geotextile strengths. Each of the five geotextile strengths include three different conditions as stated in Section 3.2.

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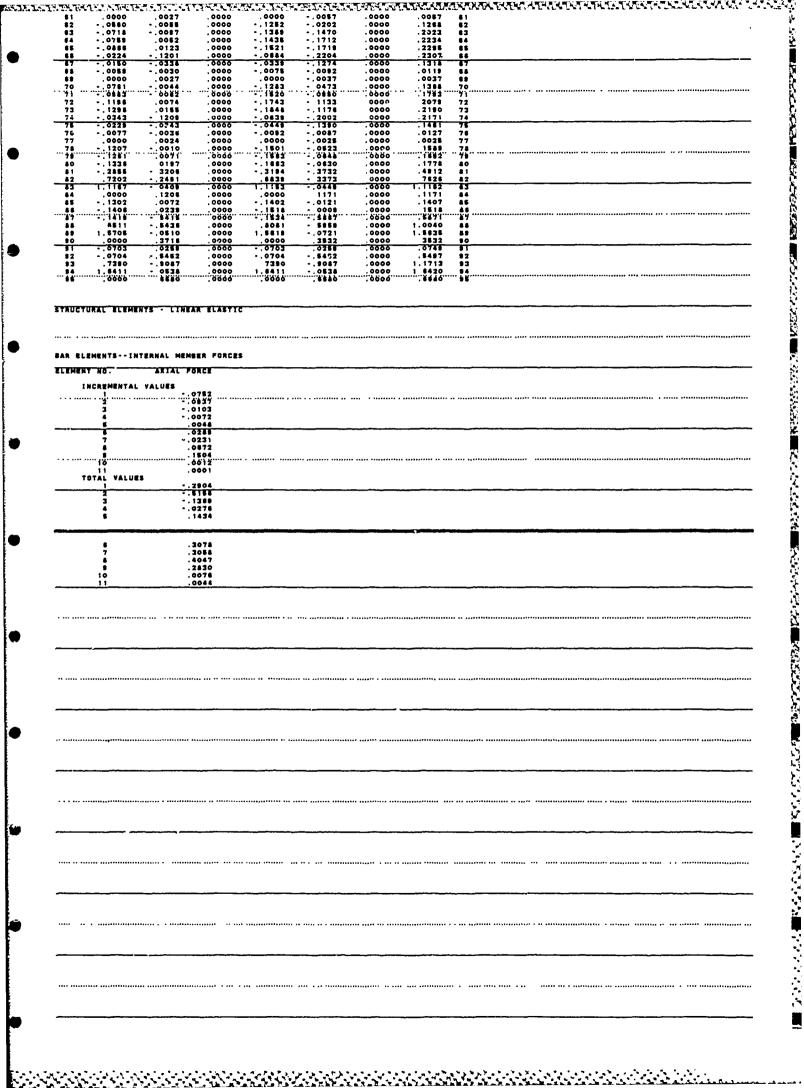
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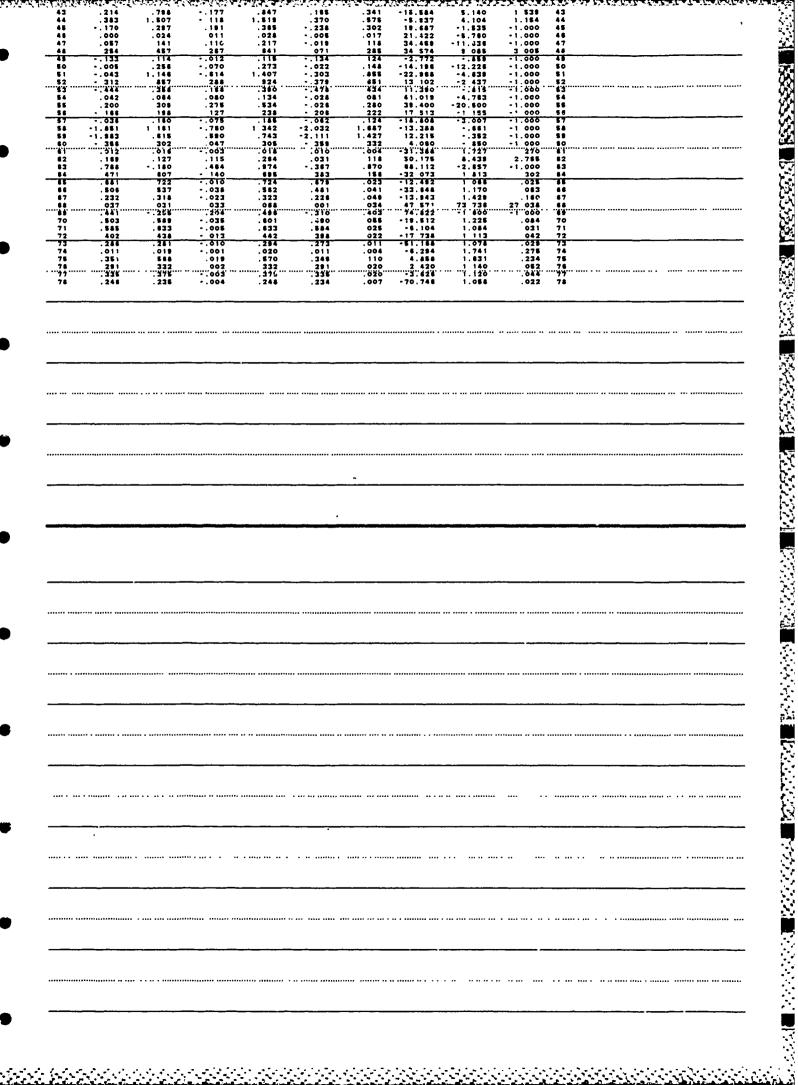
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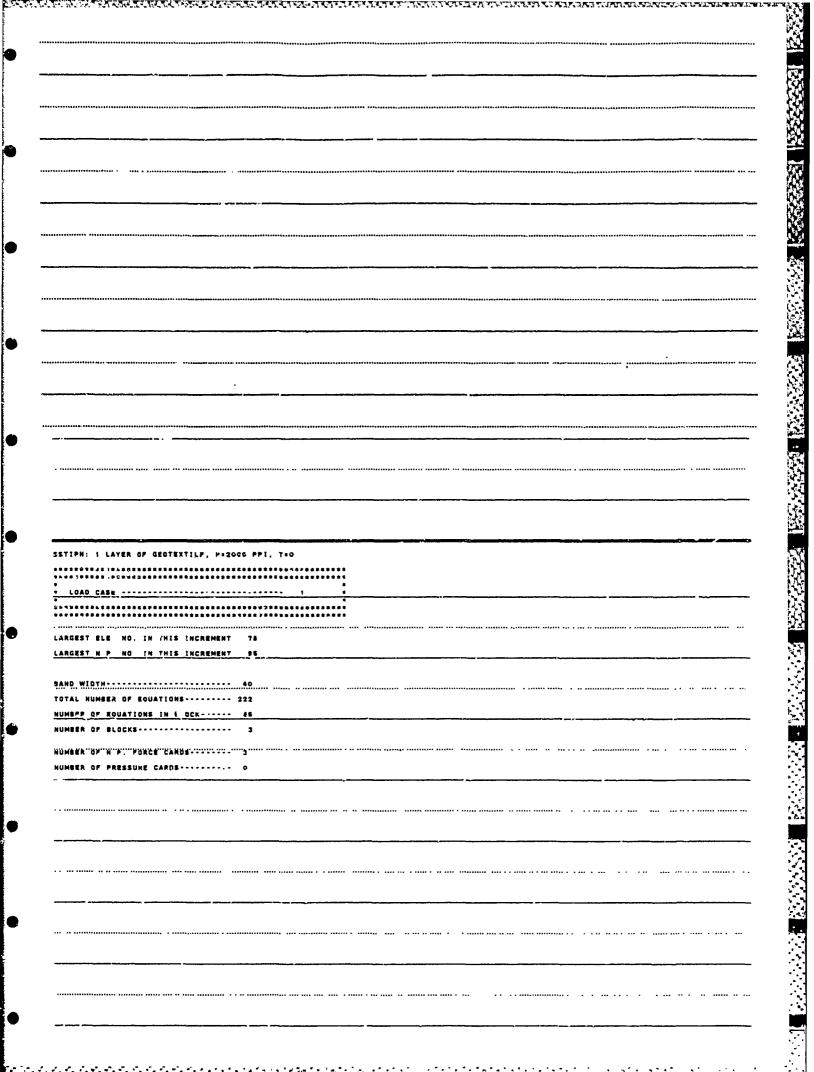
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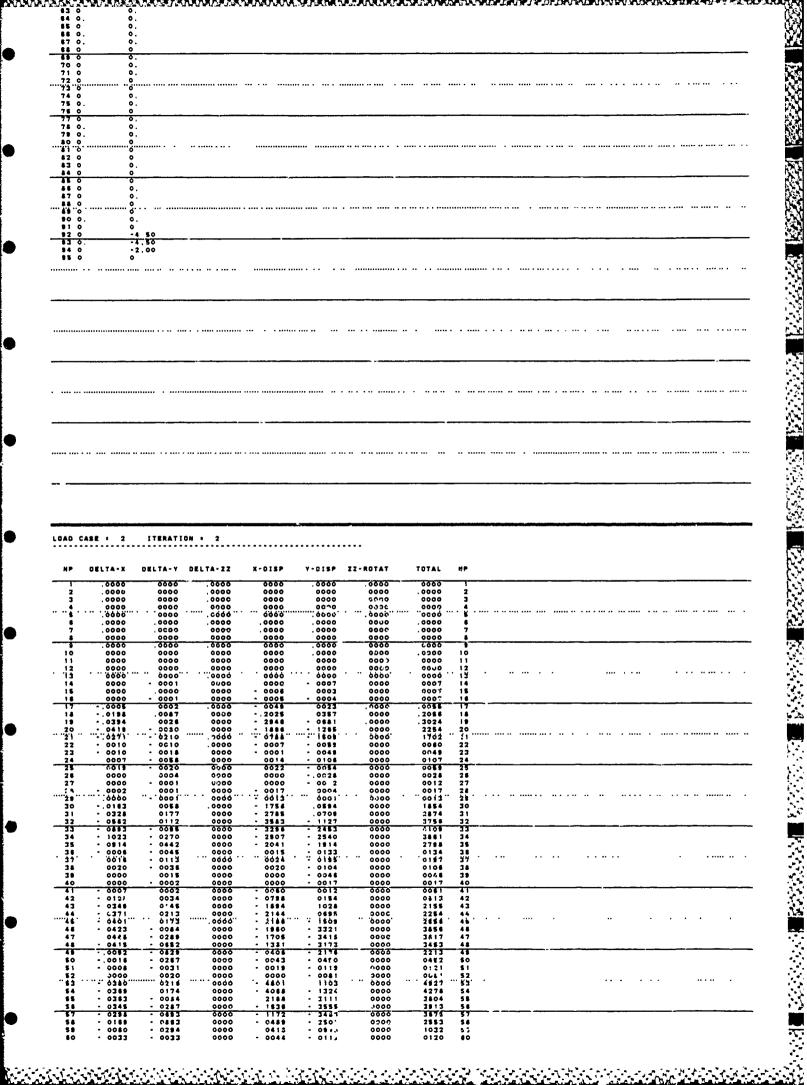
Property (September 1979)

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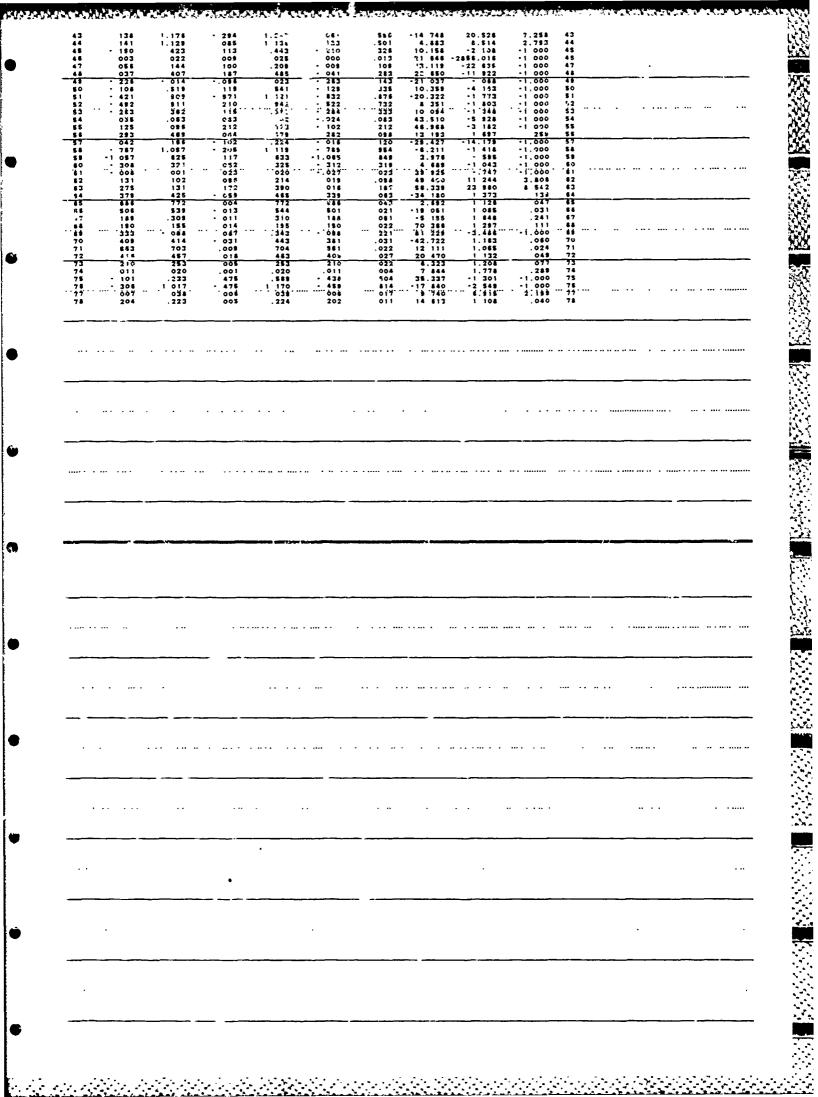
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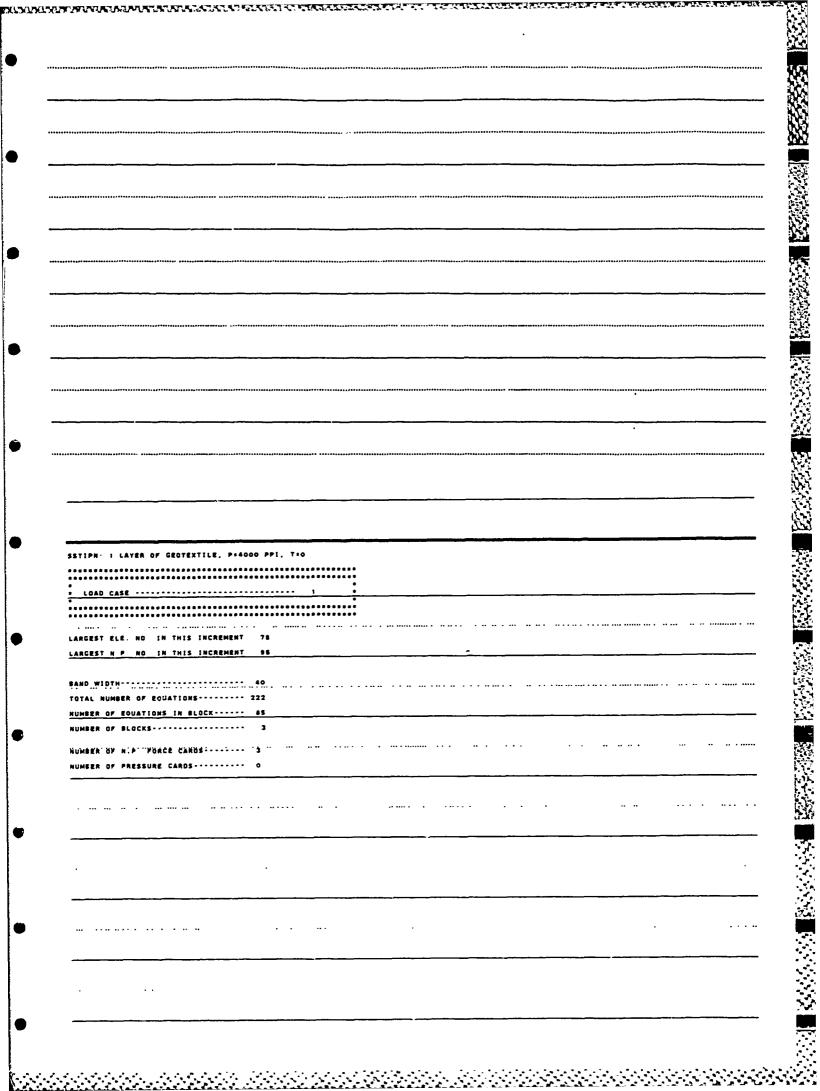


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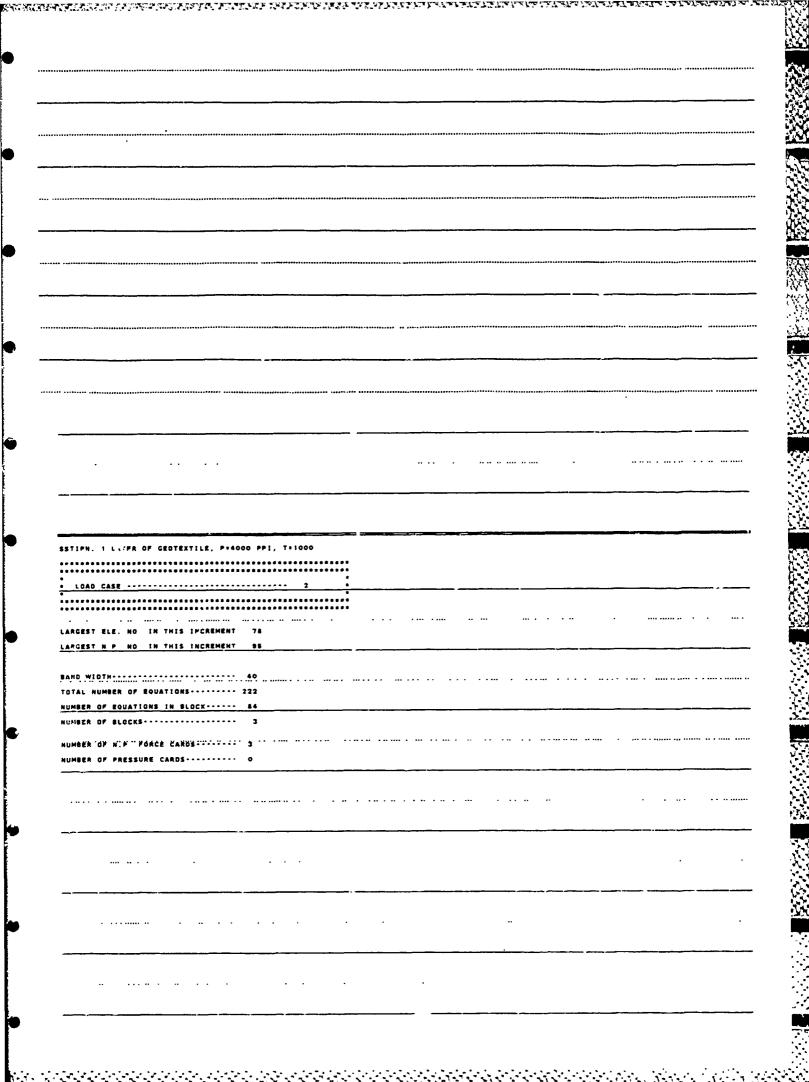
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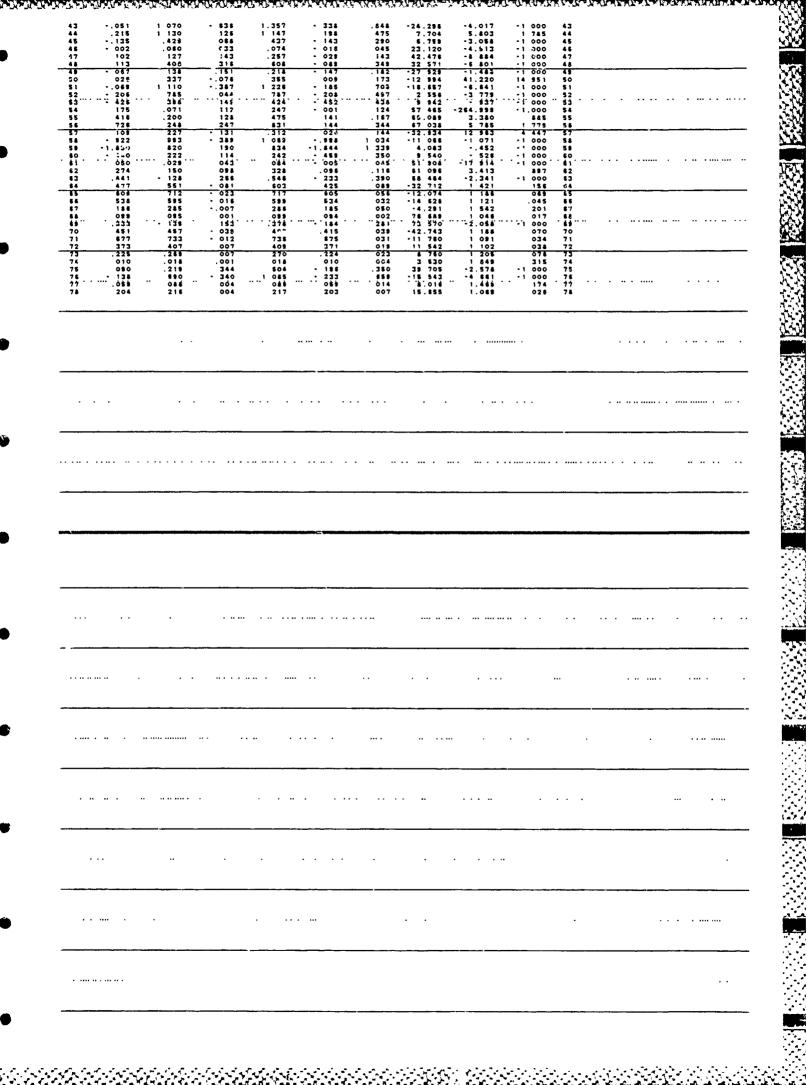
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1 - 0208 - 0216	- 0188 "0000 " - 0244 ,0000	- 0423" - 0487 - 0454 - 1175	.0000	"0982'''71"''' '' '	
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TOTAL VALUES					
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2 3 4 5	- , 7872 - , 2081 - 0101 - , 2584				
2 3 4 5	- , 7872 - , 2091 0101 , 2864				
2 3 4 5	- 7572 - 2081 0101 .2564 				
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2 3 4 5 7 6 7 6 9 10 11	- 7872 - 2091 0101 - 2864 - 8717 - 7206 - 8853 - 4083 - 0201 0208				
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	ELAS MOD		SHEAR MOD	POIS	EPS-X	EPS-Y		EPS-1		GAMMAX	ELE.	
<u> </u>	540 4 503.8 523.0	342 4 317.8 327 9	233 0 217 6 226 5	160	· 003 • 001 022	006	001 018 051	006 009 034	- 003 - 003	003 018 .067	2 3	
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1	472.2 478.5	362 6 372 5	190 9 191 7	. 237 243	- 010 - 008	. 133 208	- 031	183 212	- 010 - 013	204 225	10	
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	174.0°	13 5	``` 168 2 6	123	- 010 728	- 610"	1 983	1 203	- 027	2.540	14	
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		17.2 17 1	2 2	.494	- 933 -1 687	2 828 3.555	3 258 4 534	3,436	-1 540 -2.532	4.976 6.931	18	
1	7 6	18 2 17 1	2 2	. 494 494	-1 568 - 970	4 252 2 781	2 591 1 578	4 527 2 940	-1 843 -1 129 - 015	8 370 4 061	20 21	
} "	406.3	346 2	172 4	232	" -" 014 - 005	238	029 - 109	" 26 i	015 016	" 296 286	. 22 23	
4 5	460 0 152 1	312.4	193 1 153 2	191	031 053	- 007	- 058 071	. 124 069	022 - 024	102	24 25	
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1	173 8	418 9	132.1	351	- 685	3 842	- 310	3 842	- 690	4,459	41	
3	443 6 805 0	454.9 729 6	168 7 313 2	.315 285	- 846 288	3 261 1 759	·2 878	3 741 2 328	1 118 - 281	4.858	43	
•	1304	754 7 446.2	. 587 3 142 7	- 111	031	025	166	053	- 031 - 086	173	45	
7	215.9	4.0 437 1	0 115 \$	495 .364	- 002 - 017	034 062	634 505	.334 278	- 302 233	635 511	47	
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) 2	415.4 636.2	613 7 584.5	331 7 248 5	. 230 278	- 224 - 189	2.816	- 419	2 816 2 754	225 - 203	3.041 2 \$57	5 1 5 2	
3	102 7	582 7 420 9	346 3	166 421	- 071 036	072 -,01\$	046 045	075	- 074 - 040	150	53 54	
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PROGRAM SSTIPN
SSTIPN- 1 LAYER OF GEOTEXTILE, P=2000 PPI, E=5%, T=0 TOTAL NUMBER OF NODES
NUMBER OF OIFF BEAM MATERIALS
NUMBER OF PREEXISTING ELEMENTS
UNIT WEIGHT OF WATER 03120  OMPUTATION SEQUENCE FOR A TOTAL OF Y INCREMENTS
INCREMENT NO "I" "PUT ON LAYER NO 2  INCREMENT NO 3 FUT ON LAYER NO 3
INCREMENT NO 4 PUT ON LAYER NO 4 INCREMENT NO 5 PUY ON LAYER NO 5 """ " " " " " " " " " " " " " " " "
INCREMENT NO 7 APPLY LOAD CASE 1

NODAL POINT INPUT DATA NODE Number NODAL POINT COORDINATES X-ORD Y-GRD 8.C. CODE 22 000 10.000 20.000 30.000 36.000 42.000 50.000 000 58 000 66 000 74 000 82 000 80 000 10 000 20 000 30 000 30 000 42 000 50 000 54 000 54 000 54 000 74 000 000 000 000 000 000 000 000 11 12 13 14 15 000 18 19 20 21 22 23 24 4 000 4 000 4 000 4 000 4 000 4 000 4 000 0 26 27 28 29 30 31 32 000 .000 7 000 7 000 7 000 7 000 7 000 7 000 7 000 7 000 7 000 7 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 36 39 30 74 000 82 000 90,000 36 000 50,000 54,000 58 000 74.000 62 000 90,000 10 000 10 000 11 500 11 500 11 500 11 500 11 500 11 500 11 500 5 1 5 2 57 58 50 81 000 42.000 \$0.000 \$4.000 \$8.000 74.000 \$0.000 \$0.000 \$4.000 \$4.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0 13 .000
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r narke epri	R. GFEMENA QY	th						*****				
T CONNEC	TED NODES MA		CENTER	COORDINA Y-ORD	TES							
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334		3 25	.000	2 000								
5 5 6	19 18 20 19	2 39	000	2 000								
7 7 8	21 20 22 21	2 58	000	2 000								
9 10	23 22 24 23	3 70	.000	2.000								
1 11 12 2 12 13 3 14 18	. 25. 24 . 26. 28 . 28. 27	. 7 98.	.000 .000 .000	2 000 2 000 5.500		•		•	• •			
4 16 16	29 28 30 29	3 15	000	5 500 5 500								
6 17 18 7 18 19	31 30 32 31	2 39	.000	5 500 5 500								
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0 21 22	38 34 38 35		. 000 . 000	5.500 5.500								
2 23 24 3 24 25	37 36 38 37	3 70 3 78	. 000 . 000	5.500 5.500								
4 25 26 5 27 28	39 34 41 40	3 6	000	5 500 8 500								
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3 35 36 4 36 37	50 49	2 62	.000	8.500								
5 37 38 6 38 39 7 43 44	\$1 50 \$2 \$1	3 86	. 000	8 500 8 500								
¥ *37 K.	. \$3 . \$7 . \$4 . \$9 . \$8 84	1 "'35	500 000	10 750 10.750 10 750		•	••• •• •	•••		· · · · · ·		•••
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6 183 1 54 7 54 58	63 62	1 46	. 500	12 250 12,250	<del></del>	-						
8 55 56 8 56 57 0 57 58	84 63 85 64	1 56	000	12 250 12 250 12 250			,				<del></del>	
1 58 59	67 66 64 67	1 70	000	12 250 12 250 12 250								
3 <b>6</b> 2 <b>61</b> .		1 86 47	.000	12 250								
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STIPN: 1 LAYER OF GEOTEXTILE, P=2000 PP1, E=5%, T=	
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		CRS (WEIGHTS OF ADDED ELEMENTS)
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66 67 68 70 71 72 73 74	0.000	
66 67 68 70 71 72 73 74 71 71	0.000	
68 63 70 71 72 73 74 75 75	0.000	
66 67 68 701 722 723 74 77 77 78 80 81	o. o	
68 67 68 67 71 72 72 72 73 74 75 81 82 83	o. o	
68 67 68 68 68 68 68 68 68 68 68 68 68 68 68	o. o	
6878 68777724 77877777 7787 7787 81887 81887	o. o	
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4	361 367	. 533 545	004 014	. \$33 \$47	361 .365	.086	1 455	1 476	1 7	19 4	
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Ŷ	413 442	1.425	055	1 -428	411	\$09 \$22	3 079 7.386	3 477 475		*1 -10	
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16	. 268 336 366	.289 413 468	.024 .012 .008	. 293 . 415 469	.244 .334 365	.024 .041 .052	44.738 8 488 4 389	1 200 1 243 1 287		67 16 11 17 44 18	
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27 ···· ·· 28	074 074	.029	027	, 67\$	.015	.034	-64.721	5.296		07 28	
29 30	140 198	. 223	- 000	223 291	140	041 051	107 -\$ 127	1 593			
32	230	348 328	- 013 - 019 - 006	332	.246 226 517	052 053	-7 156 -10 647 -3 195	1.469	1.0	58 32	
33 34 36	\$18 \$23 445	. 628 619 		628 619 1,733	523 433	044	625 	1.215 1.184 2.964			
36 37	053 031	.303	.010	.303	053 .003	125 . 037	2.204	5.710 25 125	4.1	07 36	
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40 41	038 296	344 .287	- 063 010	355 . 267	049 286	. 202	-1 U35	-7 293 - 202	-1.0	00 40	1
42	274	.411	. 298	. \$22	•.385	. 454	20.414	-1.384	-1 0	00 42	
43 44	119 113	1 136 1 079	•.711 .183	1,487	- 440 .079	949 , \$17	-24.289 10.384	-3.312 14.057	*1.9 4.4	54 44	l e e e e e e e e e e e e e e e e e e e
4 <b>5</b>	.010	425 028	, 108 . 016	. 44\$ 037	- 162 000 004	.303 .016 12 <b>5</b>	10,444 29,656 37 262	*2.7\$1 82.722	-1.6 30.3	78 46	<b>;</b>
47 48 49	087 024 - 088	184 375 104	120 275	. 24\$ \$26	127	326	28 720	-83.974 -4 146 -1.053		00 44	·
50 51	022	. 208	· 055	.320 1.287	.011	154	-10.530 -17,128	27 820 158 297	9.1 58	70 50	
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67	199	. 292	- 012	. 293 235	197 067	.048	-7 112 -88 508	1 487 3 502	1	181 67 130 64	
69. 70	250 420	180	- 034	294 469	**;22à	037	72 423 -34 488	1 185		169 70	5
71 72	741 370	. 178 403	008	776 405	740 368	018	9 870 10 784	1 049		018 71	<u> </u>
73 74 75	231 004 - 018	2\$7 017 224	003 001 032	.258 017 228	231 008 - 023	013 004 125	7 296 7 231 7 314	1 116 2 247 -10 126		389 74 300 71	
76 77	184	978	027	976 104	: 184	580	-1 321 6 536	-5 229 1 345	• 1		1
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NODAL POINT INPUT DATA * . C . 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LOAD CASE  LARGEST ELE NO IN THIS INCREMENT  LARGEST N P NO IN THIS INCREMENT  BAND WIDTH  TOTAL NUMBER OF EQUATIONS  NUMBER OF EQUATIONS IN BLOCK  NUMBER OF BLOCKS  NUMBER OF PRESSURE CARDS	78 95 40 2222 64 3 3 
LOAD CASE  LARGEST ELE NO IN THIS INCREMENT  LARGEST N P NO IN THIS INCREMENT  TOTAL NUMBER OF EQUATIONS  NUMBER OF EQUATIONS IN BLOCK  NUMBER OF PRESSURE CARDS  NUMBER OF PRESSURE CARDS	78 95 40 2222 64 3 3 

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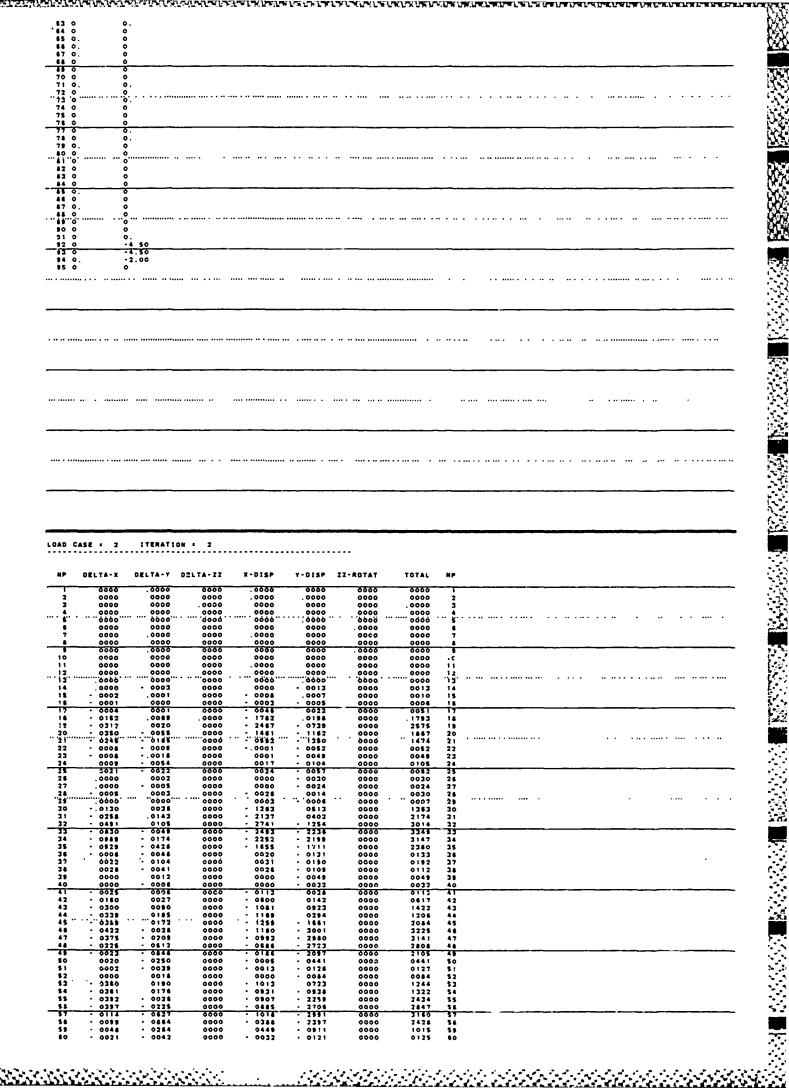
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67	. 1	4.0		485 4	040 .027	-38 437	21 424	-17 343 -,170	38 787 327	87		
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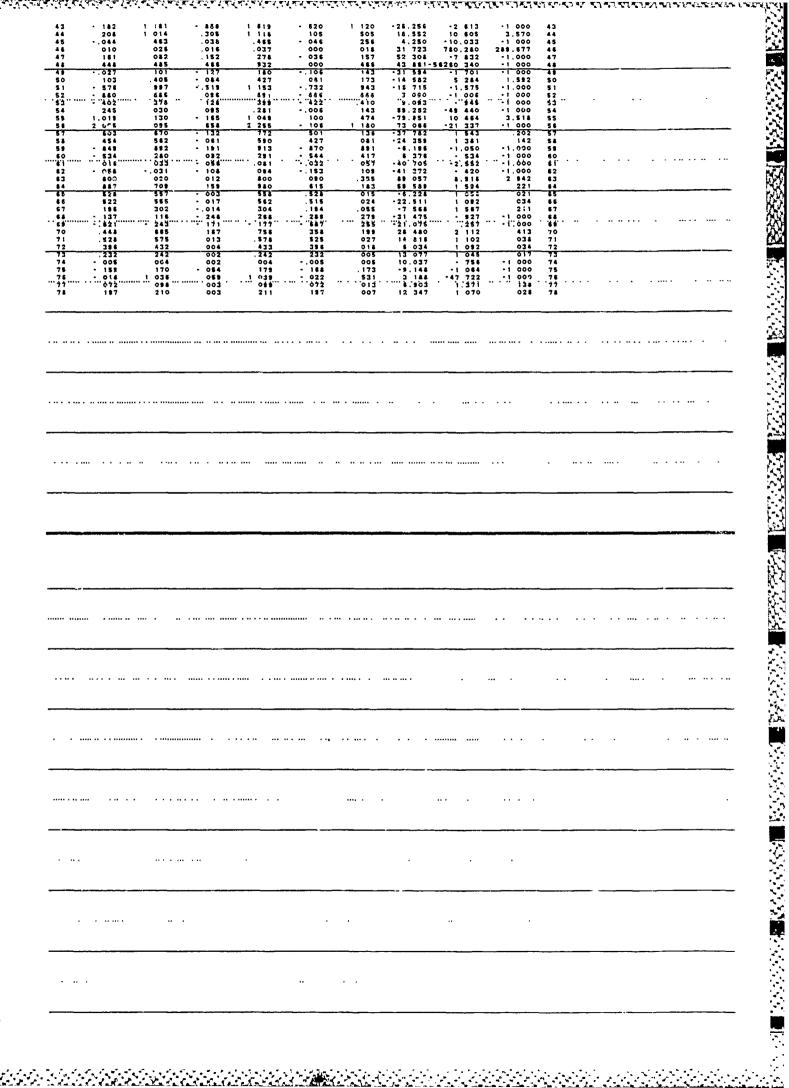
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LOAD CASE	
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	), IN THIS INCREMENT 78
GEST N P NO	) IN THIS INCREMENT 95
	TEQUATIONS 222 TONS IN BLOCK 84
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ARREST SERVICES	FORCE CARBS
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DAL POINT FO	RCES (WEIGHTS OF ADDED ELEMENTS)
DAL POINT FOI NP X-PORCE	Y-FORCE
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DAL POINT FOI NP X-FORCE 1 0 2 0	Y-FORCE 0.
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ISTIPN- 1 LAYER OF GEOTEXTILE, P+2400 PPI, E+6%, T+0		
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LOAD CASE		
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NODAL POINT FORCES (WEIGHTS OF ADDED ELEMENTS) V - F08CE HP X-FORCE 00000 0000000 0 0. 0. 0000000000000 0 0 0 0 0 0 0 0 -4 50 -2 00 . .. できると、これできるとのできると、これできることには、「他のできるとのできる。」というとのできるとのできるとのできると、「他のないない。」というとのできるとのできるとのできるとのできる。 「他のない できる (1) できる (1)

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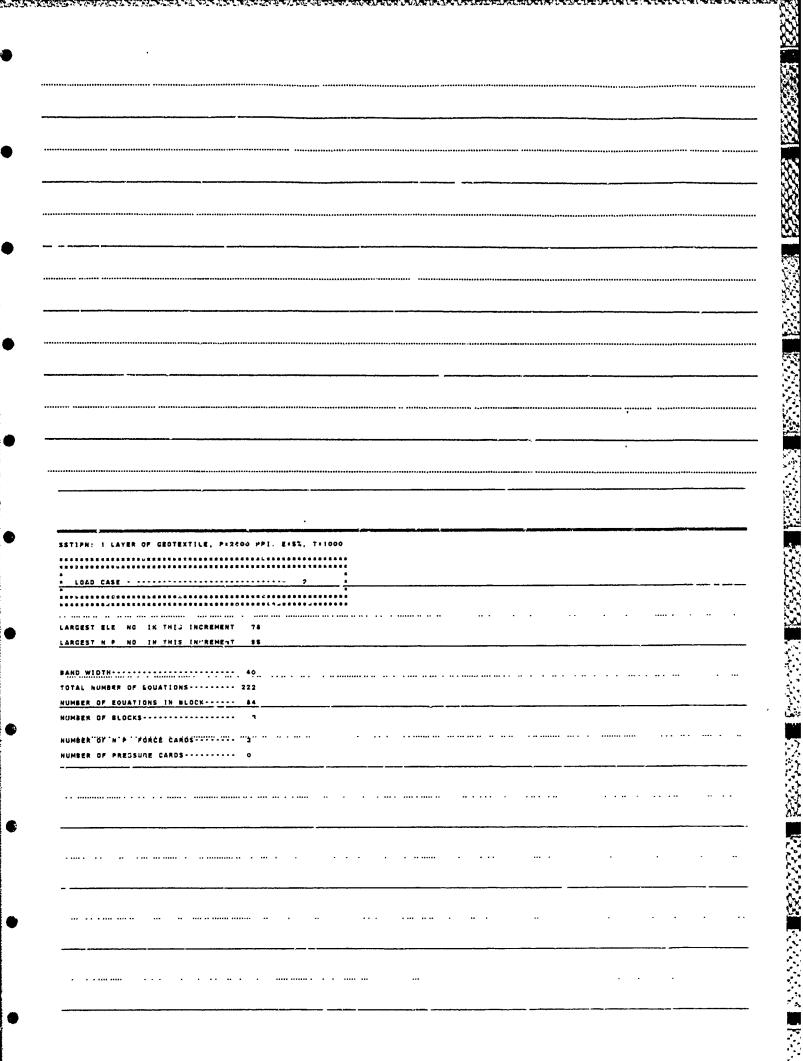
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